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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	L2039-700421
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
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Secrecy Order 37 CFR 5.2

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

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Yves		Behar	

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

City	Oakland	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	5741 Scarborough Drive		
Address 2			
City	Oakland	State/Province	CA
Postal Code	94611	Country i	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Joshua		Morenstein	

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

City	San Francisco	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	124 Downey Street		
Address 2			
City	San Francisco	State/Province	CA
Postal Code	94117	Country i	US

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Christopher		Hibmacronan	

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MICROSOFT-1002
Microsoft Inc. v. LiTL LLC

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	L2039-700421
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT	

City	Oakland	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	2429 Damuth Street		
Address 2			
City	Oakland	State/Province	CA
Postal Code	94602	Country i	US

Inventor 4 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Naoya		Edahiro	

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

City	San Francisco	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	375 Bartlett Street		
Address 2			
City	San Francisco	State/Province	CA
Postal Code	94110	Country i	US

Inventor 5 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Matthew	David	Day	

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

City	San Francisco	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	425 2nd Street #301		
Address 2			
City	San Francisco	State/Province	CA
Postal Code	94107	Country i	US

Inventor 6 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Robert	Sanford Havoc	Pennington	

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

City	Asheville	State/Province	NC	Country of Residence i	US

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	L2039-700421
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT	

Mailing Address of Inventor:

Address 1	24 Warwick Road		
Address 2			
City	Asheville	**State/Province**	NC
Postal Code	28803	**Country** i	US

Inventor 7 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Noah	Bruce	Guyot	

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

City	Mill Valey	**State/Province**	CA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	4 Longfellow Rd		
Address 2			
City	Mill Valey	**State/Province**	CA
Postal Code	94941	**Country** i	US

Inventor 8 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Daniel		Kuo	

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

City	San Francisco	**State/Province**	CA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	1916 Page St. Apt 1		
Address 2			
City	San Francisco	**State/Province**	CA
Postal Code	94117	**Country** i	US

Inventor 9 Remove

Legal Name

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	Jenea	Boshart	Hayes	

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

City	Castro Valley	**State/Province**	CA	**Country of Residence** i	US

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	L2039-700421
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT	

Mailing Address of Inventor:

Address 1	18379 Plymouth Dr.		
Address 2			
City	Castro Valley	**State/Province**	CA
Postal Code	94546	**Country** i	US

Inventor 10 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Aaron		Tang	

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

City	Somerville	**State/Province**	MA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	28 Dickinson St. Apt B		
Address 2			
City	Somerville	**State/Province**	MA
Postal Code	02143	**Country** i	US

Inventor 11 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Donald	Francis	Fischer	

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

City	Charlestown	**State/Province**	MA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	42 8th St #2515		
Address 2			
City	Charlestown	**State/Province**	MA
Postal Code	02129	**Country** i	US

Inventor 12 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Christian	Marc	Schmidt	

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

City	Brooklyn	**State/Province**	NY	**Country of Residence** i	US

Mailing Address of Inventor:

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	L2039-700421
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT	

Address 1	119 Smith St, Apt 3		
Address 2			
City	Brooklyn	**State/Province**	NY
Postal Code	11201	**Country** i	US

Inventor 13 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Lisa		Strausfeld	

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

City	New York	**State/Province**	NY	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	114 East 13th St. Apt. 7D		
Address 2			
City	New York	**State/Province**	NY
Postal Code	10003	**Country** i	US

Inventor 14 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	David	Livingstone	Fore	

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

City	Oakland	**State/Province**	CA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	1 Lakeside Drive, #602		
Address 2			
City	Oakland	**State/Province**	CA
Postal Code	94612	**Country** i	US

Inventor 15 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	John	H.	Chuang	

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

City	Brookline	**State/Province**	MA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	185 Buckminster Road

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	L2039-700421
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT	

Address 2			
City	Brookline	**State/Province**	MA
Postal Code	02445	**Country** i	US

Inventor 16 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Chris		Bambacus	

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

City	Framingham	**State/Province**	MA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	19 Burdette Ave.
Address 2	

City	Framingham	**State/Province**	MA
Postal Code	01702	**Country** i	US

Inventor 17 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Bart		Haney	

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

City	Boston	**State/Province**	MA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	711 Boylston Street
Address 2	

City	Boston	**State/Province**	MA
Postal Code	02116	**Country** i	US

Inventor 18 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Logan		Ray	

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

City	Boston	**State/Province**	MA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	711 Boylston Street
Address 2	

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	L2039-700421
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT	

City	Boston	State/Province	MA
Postal Code	02116	Country i	US

Inventor 19 — Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Serge		Beaulieu	

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

City	San Francisco	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	409B Lyon Street		
Address 2			
City	San Francisco	State/Province	CA
Postal Code	94117	Country i	US

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

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).

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

Customer Number	37462		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT		
Attorney Docket Number	L2039-700421	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	39	Suggested Figure for Publication (if any)	9

Filing By Reference :

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

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

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	L2039-700421
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT	

Publication Information:

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

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

Representative Information:

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

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	37462		

Domestic Benefit/National Stage Information:

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

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	12416496	2009-04-01

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12416496	Continuation in part of	12170939	2008-07-10	8289688	2012-10-16

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
12170939	Claims benefit of provisional	61041365	2008-04-01

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12416496	Continuation in part of	12170951	2008-07-10	8624844	2014-01-07

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	L2039-700421
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
12170951	Claims benefit of provisional	61041365	2008-04-01
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
12416496	Claims benefit of provisional	61041365	2008-04-01

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

Foreign Priority Information:

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

Remove

Application Number	Country [i]	Filing Date (YYYY-MM-DD)	Access Code [i] (if applicable)

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

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

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Authorization to Permit Access:

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	L2039-700421
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT	

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

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

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

Applicant Information:

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

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

(•) Assignee	( ) Legal Representative under 35 U.S.C. 117	( ) Joint Inventor
( ) Person to whom the inventor is obligated to assign.	( ) Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. [X]

Organization Name	LiTL LLC

Mailing Address Information For Applicant:

Address 1	33 Exeter Street		
Address 2			
City	Boston	**State/Province**	MA
Country [i]	US	Postal Code	02116
Phone Number	(617) 535-8000	Fax Number	

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	L2039-700421
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT	

Email Address	

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

Assignee Information including Non-Applicant Assignee Information:

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Assignee 1

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

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

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

Mailing Address Information For Assignee including Non-Applicant Assignee:

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

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

Signature:

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

Signature	/Marcus E. Browne/			Date (YYYY-MM-DD)	2015-04-07
First Name	Marcus	Last Name	Browne	Registration Number	71897

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	L2039-700421
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT	

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

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

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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 C o o p eration Treaty.

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT

RELATED APPLICATIONS

This application is a continuation of, and claims priority under 35 U.S.C. § 120 to, U.S. Patent Application Serial Number 12/416,496 entitled "SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT," filed on April 1, 2009, which is a continuation-in-part of, and claims priority under 35 U.S.C. § 120 to, U.S. Patent Application Serial Number 12/170,951 entitled "PORTABLE COMPUTER WITH MULTIPLE DISPLAY CONFIGURATIONS," filed on July 10, 2008, which claims priority under 35 U.S.C. § 119(e) to U.S. Provisional Application Serial No. 61/041,365, entitled "PORTABLE COMPUTER WITH MULTIPLE DISPLAY CONFIGURATIONS," filed April 1, 2008, each of which is hereby incorporated herein by reference in its entirety. U.S. Patent Application Serial Number 12/416,496 is a continuation-in-part of, and claims priority under 35 U.S.C. § 120 to U.S. Patent Application Serial Number 12/170,939, entitled "PORTABLE COMPUTER WITH MULTIPLE DISPLAY CONFIGURATIONS," filed on July 10, 2008, which claims priority under 35 U.S.C. 119(e) to U.S. Provisional Application Serial No. 61/041,365, entitled "PORTABLE COMPUTER WITH MULTIPLE DISPLAY CONFIGURATIONS," filed April 1, 2008, each of which is hereby incorporated herein by reference in its entirety. In addition, U.S. Patent Application Serial Number 12/416,496 claims priority under 35 U.S.C. 119(e) to U.S. Provisional Application Serial No. 61/041,365, entitled "PORTABLE COMPUTER WITH MULTIPLE DISPLAY CONFIGURATIONS," filed April 1, 2008, which is hereby incorporated herein by reference in its entirety.

BACKGROUND

Much of the advancement in contemporary computer systems and services stems from the significant increases in computing power. Hand in hand with those increases, enhanced features sets have developed designed to utilize that computing power. Conventional wisdom suggests that the more features that can be provided to a particular computer user, the better the user's experience will be.

As computers have become more powerful and capable of providing more and more features, ordinary/typical computer users has not been able to keep up with availability of features and services. User may become frustrated by the inability to navigate the myriad (sometime unending) configurations and options provided in order to achieve something useful and/or workable to their ordinary use. Many users simply don't take advantage of provided features. Some outright ignore options and features that would simplify the use of their computer system. This may occur because of user ignorance or even fear and in some instances because the user lacks experience with new features – so the user doesn't know the feature can be useful.

User frustration is felt not only with respect to the newer more powerful computer systems being offered today, but also frustration abounds with respect to their computer's interaction with the Internet. The present movement on the Internet, often referred to as Web 2.0, also subscribes to conventional thinking in that more and more features are being packed into each and every aspect of the web experience. Third party service providers can be found for almost any service – virtually no limitations have been found for the services that can be provided.

More typically, these on-line services provide very useful opportunities for the users who know how to take advantage of them - online photo management/sharing, online financial services, online marketplaces, online exchanges, web hosting, web development, dating services, social networking to name only a few. Very often these on-line services can be found for free or minimal costs. Typically, registration is the only requirement for participating in what is offered as free services. In other words, all that is required is the creation of a user name and password. Each service often attempts to outdo competitors by offering more and more options/features than their competitors.

SUMMARY

It is realized that the conventional wisdom with respect to such "feature packing" as discussed above suffers from significant flaws. Typical computer users simply can't take advantage of all the functionality offered, either the services and features offered by their own computer, or the services and features offered by online providers. The complexity of the interface (both hardware and software) hampers adoption, as does the volume of features offered. For example, third party service provides often find difficulty

in subscribing new users, educating existing users, and providing integration of feature sets for the features they provide as well as those offered by other service providers.

Further complicating the user's interaction with computer devices and provided services is the inflexibility of the devices being used and their accompanying interfaces. It is realized that a device that can provide a user with a flexible portal into electronic content, that is, one that can be configured dynamically improves the user experience. For example, permitting transitions from a "lean back" mode of viewing (imagine, for example, a person watching television from their couch) to a "lean forward" mode of viewing (picture, for example, a laptop user typing away in a word processing application) on a computer device improves the user experience. Further, user interfaces that are responsive to the user's dynamic configurations improve the user's ability to interact with the electronic content, from the machine itself, the internet, and even from both sources.

Accordingly, aspects and embodiments are directed to a graphical user interface that organizes interface elements into modes of content for presentation to a user. Different views of the modes of content are used to present the user with an interface that is responsive to configurations of the device and responsive to activity being performed by the user. Further the elements that comprise the graphical user interface are configured to present a summarized view of available actions and content, in order to simplify user interaction. The different views present different organizations of the interface elements and in some example display only certain ones of the modes of content in order to reduce the number of options a user must navigate to accomplish an objective.

According to one aspect of the present invention, 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 is provided. The user interface comprises a map based graphical user interface displayed on the computer system, the map based user interface comprising 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, and the plurality of visual representations of computer content rendered on the computer display, wherein the plurality of visual representations of computer content include an association to a first view of the plurality of views, the first view including the computer content, and wherein the each of the plurality of visual representations is

responsive to focus and execution, wherein execution includes clicking on the visual representation, and an execution component comprising at least one computer hardware element configured to transition the computer system display between the plurality of views, wherein the execution component further comprises a view selector component configured to select one of the plurality of views for display on a computer system in response to a computer system configuration. According to one embodiment of the present invention, the execution component is further configured to transition between the plurality of views in response to execution of at least one of a computer system operation, a visual representation, a computer system configuration, and a change in computer system configuration. According to another embodiment of the invention, the user interface further comprises a plurality of modes of content for the computer content rendered on the computer display.

According to one aspect of the present invention, the plurality of views are configured to organize modes of content into different views. According to another embodiment of the invention, the plurality of modes of content comprise at least one of a web content mode, a channel content mode, a media content mode, an application content mode, a communication content mode, and a passive content mode. According to another embodiment of the invention, the plurality of modes of content include a web content mode, wherein the web content mode is configured to display web based content for proximal viewing by a user. According to another embodiment of the invention, the plurality of modes of content include a channel content mode, wherein the channel content mode is configured to display web based content for non-proximal viewing by a user. According to another embodiment of the invention, the plurality of modes of content include a media content mode, wherein the media content mode is configured to display media based content for non-proximal viewing by a user mode. According to another embodiment of the invention, the plurality of modes of content include a web content mode, wherein the web content mode is optimized to display web based content for proximal viewing by a user. According to another embodiment of the invention, the plurality of modes of content include a channel content mode, wherein the channel content mode is optimized to display web based content for non-proximal viewing by a user. According to another embodiment of the invention, the plurality of modes of content

include a media content mode, wherein the media content mode is optimized to display media based content for non-proximal viewing by a user mode.

According to one embodiment of the present invention, the media based content includes at least one of digital photos, digital audio files, and digital video files. According to another embodiment of the invention, the media based content is accessed through a remote service. According to another embodiment of the invention, the plurality of modes of content include a connect content mode, wherein the connect content mode is configured to display computer configuration operations for viewing by a user. According to another embodiment of the invention, the plurality of modes of content include an application content mode, wherein the application content mode is configured to display computer applications for use by a user. According to another embodiment of the invention, in the plurality of views includes a home view configured to organize a plurality of content modes. According to another embodiment of the invention, the plurality of views includes a channel view configured to organize a single content mode. According to another embodiment of the invention, the plurality of views includes a channel view configured to organize dual content modes. According to another embodiment of the invention, the plurality of modes of content include a passive content mode, wherein the passive content mode is configured to display web based content for non-proximal viewing without user interaction.

According to one embodiment of the present invention, the plurality of modes of content include a passive content mode, wherein the passive content mode is optimized to display web based content for non-proximal viewing without user interaction. According to another embodiment of the invention, the plurality of views includes a screen saver view configured to organize selected content modes for passive viewing. According to another embodiment of the invention, the plurality of views further comprise a first layer, wherein the first layer organizes computer operations, including navigation operations, into groups based on similar functional operation. According to another embodiment of the invention, the first layer maps to groupings of lower level functionality. According to another embodiment of the invention, the first layer include navigation operations maps to a seconding layer comprising computer operations for interacting with computer content. According to another embodiment of the invention, levels of computer functions are segregated based on proximity of the operation to a source of digital content, higher levels

including operations that navigate to lower level operations that permit interaction with computer content.

According to one embodiment of the present invention, the first layer comprises a home view and a channel view, and the first layer is further configured to organize and simplify access to lower level functions. According to another embodiment of the invention, the visual representations comprise a lower layer relative to the first layer and include lower level functions. According to another embodiment of the invention, the plurality of views includes a home view organizing a plurality of visual representations of digital content, wherein the home view is displayed responsive to a computer system configuration. According to another embodiment of the invention, the computer system configuration comprises a physical positioning of the computer system about a longitudinal axis of rotation. According to another embodiment of the invention, the computer system configuration further comprises a physical positioning of a computer system display relative to a base of the computer system. According to another embodiment of the invention, the home view comprises a header display and a body display. According to another embodiment of the invention, the header display comprises a lateral bar extending from the left of the computer display screen to the right of the computer display screen. According to another embodiment of the invention, the user interface further comprises 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.

According to one embodiment of the present invention, the user interface further comprises a storage component configured to retain a previous view state. According to another embodiment of the invention, 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. According to another embodiment of the invention, the user interface further comprises a navigation element disposed in the header display. According to another embodiment of the invention, the body display is rendered below the header display in the display screen of the computer system. According to another embodiment of the invention, the body comprises an organization of the plurality of visual

representations of computer content rendered on the computer display. According to another embodiment of the invention, the user interface further comprises a display threshold for a screen rendered in the computer display. According to another embodiment of the invention, the home view is configured into pages based on the display of the computer system and the display threshold. According to another embodiment of the invention, the display threshold establishes a maximum number of visual representations display per page of the home view. According to another embodiment of the invention, the user interface further comprises an indication of visual representations displayed on adjacent pages of the home view, wherein the indication is display within the body of the home view.

According to one embodiment of the present invention, the user interface further comprises a nascent card displayed in the body of the home view, wherein the nascent card is configured to permit generation of additional visual representations of digital content. According to another embodiment of the invention, 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. According to another embodiment of the invention, the user interface further comprises 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. According to another embodiment of the invention, the quick access view permits a user to select from a display of frequently accessed web content to generate the mapping. According to another embodiment of the invention, the quick access view permits a user to select from a display of stored bookmarks to generate the mapping. According to another embodiment of the invention, the quick access view permits a user to enter a url to generate the mapping. According to another embodiment of the invention, 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. According to another embodiment of the invention, 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.

According to one embodiment of the present invention, the channel view further comprises a channel selector. According to another embodiment of the invention, the channel selector comprises a display of a sequence of visual representations presenting a channel content mode. According to another embodiment of the invention, 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. According to another embodiment of the invention, the visual representations are responsive to execution by a selector, including a button. According to another embodiment of the invention, the button is available in a plurality of computer system configurations. According to another embodiment of the invention, the execution component is further configured to cause the computer system to transition to the first view including the digital content in response to execution of the selector by a user. According to another embodiment of the invention, the user interface further comprises a storage component configured to retain a current computer system configuration state.

According to one embodiment of the present invention, the storage component is further configured to retain a current view state. According to another embodiment of the invention, the execution component is further configured to transition the computer system display between the plurality of views, responsive to at least one of the current computer system configuration state and the current view state. According to another embodiment of the invention, the execution component is configured to transition to a channel view in response to manipulation of an integrated scroll wheel, when the computer system is in a laptop and an easel configuration. According to another embodiment of the invention, the user interface further comprises a scroll wheel threshold configured to require additional manipulations of the integrated scroll in order to cause the transition to the channel view, when the current computer system configuration state indicates the computer system is in a laptop configuration. According to another embodiment of the invention, the execution component is further configured to transition from the first view and a home view to a channel view in response to a change in computer system configuration state from laptop to easel.

According to another embodiment, the interface discussed above is displayed on a portable computer configurable between a plurality of display modes including a closed

mode, a laptop mode and an easel mode. The portable computer further comprises a display component including a display screen, a base, a hinge assembly at least partially housed within the base and configured to pivotably couple the display component to the base, wherein the display component is rotatable about a longitudinal axis running along an interface between the display component and the base, wherein, in the closed mode, the display screen is disposed substantially against the base, wherein rotating the display component about the longitudinal axis up to approximately 180 degrees from the closed mode configures the portable computer into the laptop mode, and wherein rotating the display component about the longitudinal axis beyond approximately 180 degrees from the closed mode configures the portable computer into the easel mode.

According to one aspect of the present invention, a method for presenting a customized user interface for a computer system with a plurality selectable I/O profiles to a user is provided. The method comprises displaying a a map based graphical user interface on the computer system, the act of displaying the map based user interface includes acts of displaying 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, and displaying the plurality of visual representations of computer content rendered on the computer display, wherein the plurality of visual representations of computer content include an association to a first view of the plurality of views, the first view including the computer content, and wherein the each of the plurality of visual representations is responsive to focus and execution, wherein execution includes clicking on the visual representation, and executing, by a computer processor, a transition in the computer system display between the plurality of views, wherein the act of executing includes an act of selecting one of the plurality of views for display on a computer system in response to a computer system configuration. According to one embodiment of the present invention, the act of executing occurs in response to an act of permitting execution of at least one of a computer system operation, a visual representation, a computer system configuration, and a change in computer system configuration. According to another embodiment of the invention, the method further comprises an act of displaying a plurality of modes of content for the computer content on the computer display, wherein the plurality of modes of content comprise at least one of a

web content mode, a channel content mode, a media content mode, an application content mode, a communication content mode, and a passive content mode.

According to one embodiment of the present invention, the plurality of views are configured to organize modes of content into different views. According to another embodiment of the invention, the web content mode is configured to display web based content for proximal viewing by a user, wherein the channel content mode is configured to display web based content for non-proximal viewing by a user, wherein the media content mode is configured to display media based content for non-proximal viewing by a user mode, wherein the application content mode is configured to display computer applications for use by a user, wherein the communication content mode is configured to display computer configuration operations for viewing by a user, and wherein the passive content mode is configured to display web based content for non-proximal viewing without user interaction. According to another embodiment of the invention, in the plurality of views includes a home view and a channel view, and the method further comprises acts of organizing a plurality of content modes into the home view; and organizing at least one of a single content mode and a two content modes into the channel view. According to another embodiment of the invention, the plurality of views includes a screen saver view, and the method further comprises an act of organizing selected content modes for passive viewing in the screen saver view.

According to one embodiment of the present invention, the plurality of views includes a home view, and the method further comprises organizing a plurality of visual representations of digital content into the home view, wherein the home view is displayed responsive to a computer system configuration, displaying the home view in response to a compute system configuration, wherein the act of displaying the home view includes an act of displaying a header display and a body display in the home view, wherein the header display comprises a lateral frame extending from the left of the computer display screen to the right of the computer display screen, and wherein the body display is rendered below the header display in the display screen of the computer system. According to another embodiment of the invention, the computer system configuration comprises a physical positioning of the computer system display relative to a base of the computer system about a longitudinal axis of rotation. According to another embodiment of the invention, the method further comprises displaying a search tool in the header

display, accepting entry of search terms through an I/O device, navigating to a view of a first visual representation of computer content, wherein the computer content includes a search engine, and the search engine presents results for the search terms, in response to an act of executing the search tool. According to another embodiment of the invention, the method further comprises an act of storing in a computer memory a previous view state. According to another embodiment of the invention, the method further comprises acts of displaying a navigation element in the header display, permitting execution of the navigation element by a user, and transitioning the computer system display to a previous view, in response to the act of permitting.

According to one embodiment of the present invention, the home view further comprises at least one display page and the method further comprising acts of displaying the plurality of visual representations of computer content rendered on the computer display in the body display, and displaying a maximal number of visual representations in a display page of the home view. According to another embodiment of the invention, the method further comprises displaying an indication of visual representations displayed on adjacent display pages in the home view, wherein the indication is displayed within the body of the home view. According to another embodiment of the invention, the method further comprises acts of displaying a nascent card in the body of the home view, permitting execution functionality associated with the nascent card, and generating an additional visual representations of digital content in response to execution of the functionality associated with the nascent card. According to another embodiment of the invention, the method further comprising act of executing a process for creating a visual representation in response to execution of the functionality associated with 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.

According to one embodiment of the present invention, the method further comprises acts of displaying a quick access view, permitting a user to select a source of digital content in the quick access view, and generating a mapping between the source of digital content and a visual representation in response to an act of selecting a source of digital content. According to another embodiment of the invention, the plurality of views includes a channel view, and the act of executing a transition occurs in response an act of

activating an integrated scroll wheel on the computer system. According to another embodiment of the invention, the method further comprises an act of displaying a channel selector including an act of displaying a sequence of visual representations. According to another embodiment of the invention, the act of displaying the sequence of visual representations is responsive to manipulation of the integrated scroll wheel, and the method further comprises and act of displaying a next visual representation from the sequence of visual representations, in response to manipulation of the integrated scroll wheel. According to another embodiment of the invention, the method further comprises an act of storing in a computer memory a current computer system configuration state and a current view state. According to another embodiment of the invention, the act of executing, by a computer processor, a transition in the computer system display the execution component, includes an act of transitioning the computer system display between the plurality of views, responsive to at least one of the current computer system configuration state and the current view state.

According to one embodiment of the present invention, the transition occurs to a channel view in response to manipulation of an integrated scroll wheel, when the computer system is in a laptop and an easel configuration. According to another embodiment of the invention, the transition occurs from at least one of the first view and a home view to a channel view in response to a change in computer system configuration state from laptop to easel.

According to one aspect of the present invention, a computer-readable medium having computer-readable signals stored thereon that define instructions that, as a result of being executed by a computer, instruct the computer to perform the method for presenting a customized user interface for a computer system with a plurality selectable I/O profiles to a user as described above is provided.

According to one aspect of the present invention, a system for presenting a customized user interface for a system with a plurality selectable I/O profiles is provided. The system comprises a first user interface component 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, a second user interface component configured to display the plurality of visual representations of computer content on the computer display, wherein

the plurality of visual representations of computer content include an association to a first view of the plurality of views, the first view including the computer content, and wherein the each of the plurality of visual representations is responsive to focus and execution, wherein execution includes clicking on the visual representation, and an execution component configured to execute a transition in the computer system display between the plurality of views, wherein the execution component further comprises a view selector component act configured to select one of the plurality of views for display on a computer system in response to a computer system configuration. According to one embodiment of the present invention, the execution component is further configured to transition between the plurality of views in response to execution of at least one of a computer system operation, a visual representation, a computer system configuration, and a change in computer system configuration. According to another embodiment of the invention, the second user interface component is further configured to display a plurality of modes of content for the computer content rendered on the computer display, wherein the plurality of modes of content comprise at least one of a web content mode, a channel content mode, a media content mode, an application content mode, a communication content mode, and a passive content mode. According to another embodiment of the invention, the plurality of views are configured to organize modes of content into different views. According to another embodiment of the invention, the web content mode is configured to display web based content for proximal viewing by a user, wherein the channel content mode is configured to display web based content for non-proximal viewing by a user, wherein the media content mode is configured to display media based content for non-proximal viewing by a user mode, wherein the application content mode is configured to display computer applications for use by a user, wherein the communication content mode is configured to display computer configuration operations for viewing by a user, and wherein the passive content mode is configured to display web based content for non-proximal viewing without user interaction.

According to one embodiment of the present invention, the first user interface component is further configured to display 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. According to another embodiment of the invention, the plurality of views includes a screen saver view configured to organize selected content

modes for passive viewing. According to another embodiment of the invention, the first user interface component is further configured to display 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 computer display screen to the right of the computer display screen, wherein the body display is rendered below the header display in the display screen of the computer system. According to another embodiment of the invention, the system is configured to permit selection of a computer system configuration, and the computer system configuration comprises a physical positioning of the computer system display relative to a base of the computer system about a longitudinal axis of rotation. According to another embodiment of the invention, the first user interface component is further configured to display a search tool in the header display, wherein the search tool is configured to accept search terms entered by a user, and wherein the execution component is further configured to 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 in response to execution of the search tool.

According to one embodiment of the present invention, the system further comprises a storage component configured to retain a previous view state. According to another embodiment of the invention, 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. According to another embodiment of the invention, the first user interface component further comprises a display of the navigation element in the header display. According to another embodiment of the invention, 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. According to another embodiment of the invention, 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. According to another embodiment of the invention, the second user interface component further comprises a nascent card displayed in the body of the home view,

wherein the nascent card is configured to permit generation of additional visual representations of digital content. According to another embodiment of the invention, 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.

According to one embodiment of the present invention, the first user interface component further comprises 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. According to another embodiment of the invention, 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. According to another embodiment of the invention, 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. According to another embodiment of the invention, the channel view further comprises a channel selector comprising a display of a sequence of visual representations presenting a channel content mode. According to another embodiment of the invention, 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. According to another embodiment of the invention, the system further comprises a storage component configured to retain a current computer system configuration state and a current view state. According to another embodiment of the invention, the execution component is further configured to transition the computer system display between the plurality of views, responsive to at least one of the current computer system configuration state and the current view state. According to another embodiment of the invention, the execution component is configured to transition to a channel view in response to manipulation of an integrated scroll wheel, when the computer system is in a laptop and an easel configuration. According to another embodiment of the invention, the execution component is further configured to transition from the first view and a home

view to a channel view in response to a change in computer system configuration state from laptop to easel.

According to one embodiment, a portable computer is configurable between various modes, including a closed mode, a laptop mode, an easel mode, a flat mode and a frame mode. The portable computer may comprise a display component including a display screen, a base, and a hinge assembly at least partially housed within the base and configured to pivotably couple the display component to the base. The display component may be rotatable about a longitudinal axis running along an interface between the display component and the base. In the closed mode, the display screen may be disposed substantially against the base, and rotating the display component about the longitudinal axis up to approximately 180 degrees from the closed mode may configure the portable computer into the laptop mode. Rotating the display component about the longitudinal axis beyond approximately 180 degrees axis from the closed mode may configure the portable computer into the easel mode.

In one example of the portable computer, the display component is rotatable about the longitudinal axis up to approximately 320 degrees from the closed mode. In another example, the portable computer comprises a display orientation module that displays content on the display screen in one of a plurality of orientations relative to the longitudinal axis. The orientation of the displayed content may be dependent on the current display mode of the portable computer, or may be configurable responsive to a user input. The portable computer may further comprise a mode sensor which detects a current display mode of the portable computer, and the display orientation module may display content on the display screen in an orientation dependent on the current display mode detected by the mode sensor. Depending on the hinge assembly used, the longitudinal axis may comprises multiple parallel axes, and the hinge assembly may be configured to permit rotation of the display component about any of the multiple parallel axes to configure the portable computer between the plurality of display modes.

Still other aspects, embodiments, and advantages of these exemplary aspects and embodiments, are discussed in detail below. Moreover, it is to be understood that both the foregoing information and the following detailed description are merely illustrative examples of various aspects and embodiments, and are intended to provide an overview or framework for understanding the nature and character of the claimed aspects and

embodiments. Any embodiment disclosed herein may be combined with any other embodiment in any manner consistent with the objects, aims, and needs disclosed herein, and references to "an embodiment," "some embodiments," "an alternate embodiment," "various embodiments," "one embodiment" or the like are not necessarily mutually exclusive and are intended to indicate that a particular feature, structure, or characteristic described in connection with the embodiment may be included in at least one embodiment. The appearances of such terms herein are not necessarily all referring to the same embodiment.

BRIEF DESCRIPTION OF THE DRAWINGS

Various aspects of at least one embodiment are discussed below with reference to the accompanying figures, which are not intended to be drawn to scale. The figures are included to provide illustration and a further understanding of the various aspects and embodiments, and are incorporated in and constitute a part of this specification, but are not intended as a definition of the limits of the invention. Where technical features in the figures, detailed description or any claim are followed by references signs, the reference signs have been included for the sole purpose of increasing the intelligibility of the figures, detailed description, and/or claims. Accordingly, neither the reference signs nor their absence are intended to have any limiting effect on the scope of any claim elements. In the figures, each identical or nearly identical component that is illustrated in various figures is represented by a like numeral. For purposes of clarity, not every component may be labeled in every figure. In the figures:

FIG. 1 is an illustration of one example of a portable computer, according to aspects of the invention, in a "laptop" configuration;

FIG. 2 is a screen shot illustrating one example of a graphical user interface showing a home view, according to aspects of the invention;

FIG. 3A-C are screen shots illustrating examples of a graphical user interface showing web page views, according to aspects of the invention;

FIG. 4 is a perspective view of the portable computer of FIG. 1 in the easel mode;

FIG. 5 is a screen shot illustrating one example of a graphical user interface showing a quick access view, according to aspects of the invention;

FIG. 6 is a screen shot illustrating one example of a graphical user interface showing a bookmark view, according to aspects of the invention;

FIG. 7A-B are screen shots illustrating examples of a graphical user interface showing a web page view, according to aspects of the invention;

FIG. 8 is a screen shot illustrating one example of a graphical user interface showing a home view, according to aspects of the invention;

FIG. 9 is an illustration of an example conceptual model of a graphical user interface, according to aspects of the invention;

FIG. 10 illustrates an example process for generating a visual representation of computer content, according to aspects of the invention;

FIG. 11 is a block diagram of one example of a portable computer user interface architecture, according to aspects of the invention;

FIG. 12 is a screen shot illustrating one example of a graphical user interface, according to aspects of the invention;

FIG. 13 is a screen shot illustrating another example of a graphical user interface according to aspects of the invention;

FIG. 14 illustrates an example of a behavior model for display of cards responsive to computer focus, according to aspects of the invention;

FIG. 15A is a screen shot of an example web card in a non-hover state, according to aspects of the invention;

FIG. 15B is a screen shot of an example web card in a hover state, according to aspects of the invention;

FIG. 16 is a screen shot of examples of option views of cards, according to aspects of the invention;

FIG. 17 is an illustration of an example of the portable computer in the laptop mode, according to aspects of the invention;

FIG. 18A-E illustrate examples of a header display responsive to focus and user activity, according to aspects of the invention;

FIG. 19 is a screen shot of a web page view including a toolbar, according to aspects of the invention;

FIG. 20A-B are screen shots illustrating examples of a graphical user interface showing a channel page view, according to aspects of the invention;

FIG. 21 is a screen shot illustrating examples of a graphical user interface showing a channel full view, according to aspects of the invention;

FIG. 22 is a screen shot illustrating one example of a graphical user interface showing a bookmark view, according to aspects of the invention;

FIG. 23 is a screen shot illustrating one example of a graphical user interface showing a channel view, according to aspects of the invention;

FIG. 24 is a screen shot illustrating one example of a graphical user interface showing a channel page view, according to aspects of the invention;

FIG. 25A-B are illustrations of example logical diagrams of the behavior for the channel view, according to aspects of the invention;

FIG. 26 is an illustration of the portable computer configured into a "frame" mode, according to aspects of the invention;

FIG. 27 is an illustration of the portable computer configured into a "flat" mode, according to aspects of the invention;

FIG. 28 is an illustration of an example logical diagram of the behavior for the channel view, according to aspects of the invention;

FIG. 29A-B are screen shots illustrating example graphical user interfaces showing a web page view with a share interface, according to aspects of the invention;

FIG. 30 is a screen shot illustrating an example graphical user interface showing a shared card, according to aspects of the invention;

FIG. 31 is a screen shot illustrating an example graphical user interface showing a shared card notification, according to aspects of the invention;

FIG. 32 is a screen shot illustrating an example graphical user interface showing a notification messages, according to aspects of the invention;

FIG. 33 is a screen shot illustrating an example graphical user interface showing a notification, according to aspects of the invention;

FIG. 34 is a screen shot illustrating an example graphical user interface showing a notification, according to aspects of the invention;

FIG. 35 is a screen shot illustrating an example graphical user interface showing a web page view with a download interface, according to aspects of the invention;

FIG. 36 is a flow diagram of one example process for interpreting executable operations into streamlined operations according to aspects of the invention;

FIG. 37 is a flow diagram of one example process for permitting selection of executable operations in content according to aspects of the invention;

FIG. 38 is a flow diagram of one example process for transforming executable operations into remote storage operations according to aspects of the invention;

FIG. 39 is a flow diagram of one example process for obtaining service access information, according to aspects of the invention;

FIG. 40 is a flow diagram of one example process for pre-configuring a streamlined device, according to aspects of the invention;

FIG. 41A is a screen shot illustrating an example graphical user interface showing a web page view with a print interface, according to aspects of the invention;

FIG. 41B are screen shots illustrating examples of print and download interfaces, according to aspects of the invention;

FIG. 42 is a flow diagram of one example process for streamlining user interactions with digital content, according to aspects of the invention;

FIG. 43 is a flow diagram of one example process for streamlining user interactions with computer content, according to aspects of the invention;

FIG. 44 is a flow diagram of one example process for permitting a user to interact with computer content, according to aspects of the invention;

FIG. 45 is a flow diagram of one example process for providing consistent accessibility to computer content, according to aspects of the invention;

FIG. 46 is a flow diagram of one example process for providing consistent navigation operations to a user, according to aspects of the invention;

FIG. 47A-B are flow diagrams of example processes for generating a user interface element, according to aspects of the invention;

FIG. 48 is a flow diagram of one example process for permitting a user to select a viewing mode for a streamlined device, according to aspects of the invention;

FIG. 49A is a flow diagram of one example process for transitioning between a lean forward view to a lean backward view, according to aspects of the invention;

FIG. 49B is a flow diagram of one example process for transitioning between user views, according to aspects of the invention;

FIG. 50 is a flow diagram of one example process for organizing a plurality of views and GUI elements into a consistent presentation, according to aspects of the invention;

FIG. 51 is a block diagram of a computer system for streamlining user interactions with computer content according to aspects of the invention; and

FIGS. 52A-C are diagrams illustrating different positions of the portable computer of FIG. 4 in easel mode;

FIG. 53A is an illustration of a portion of the portable computer of FIG. 1 in the laptop mode, illustrating a hinge assembly according to aspects of the invention; and

FIG. 53B is an in illustration of a portion of the portable computer of FIG. 1 in the easel mode, illustrating the hinge assembly according to aspects of the invention.

DETAILED DESCRIPTION

It is realized that the conventional wisdom with respect to such "feature packing" as discussed above suffers from significant flaws. Typical computer users simply can't take advantage of all the functionality offered, either the services and features offered by their own computer, or the services and features offered by online providers. The complexity of the interface (both hardware and software) hampers adoption, as does the volume of features offered. For example, third party service provides often find difficulty in subscribing new users, educating existing users, and providing integration of feature sets for the features they provide as well as those offered by other service providers.

Synergy between services providers can be found and exploited by even the most novice user through streamlined computer systems and user interface presentation. According to one aspect, the interplay between various third party services and computer features can be readily appreciated by even the most novice user because the various functionality and features sets are easily accessible through the streamlined access controls and consistent user interfaces. As discussed further below, in one example, the graphical user interface improves transitions from one service to another, through a consistent view of available content. A user is able to navigate easily and quickly from one content provider to another user the organized view. The elements that comprise the view further facilitate navigation and transition by, for example, retaining state information an in another example by remaining persistent to the view.

According to another aspect, streamlining the computer system/device the user interacts with includes establishing a first set of I/O devices that a user needs to operate and providing that first set of I/O devices as a physical configuration of the device. Additionally, providing the user the ability to change from the first set of I/O devices, a first I/O profile, to another at will improves the user experience and permits the user to dynamically select a preferred I/O profile best suited to the user's present need. According to one embodiment, user selection includes transitioning from a lean back mode to a lean forward mode and vice versa. In one embodiment, the user's computer device is configured to have multiple I/O profiles that can be selected by physically manipulating the orientation of the computer device itself.

According to another aspect, streamlining user interactions with the computer system/device includes representing computer based content in visual representations that render computer operations/behavior in a consistent manner. The visual representations are adapted to permit easy user interaction even upon selection of a first I/O profile or the change in selection of an I/O profile. According to one embodiment, the visual representations are rendered as cards, as discussed in more detail below. Different types of cards may be employed to render different types of available content. For example, web based content, may be rendered as a web card (e.g. Fig. 2, 206) that associated with a mapping to web content. Some web cards map directly to web pages and in response to selection of the web card the computer device executes the mapping and displays a web view of the content. Other cards may be used to provide interactive displays selectable by a user. In another example, system operations are displayed as system cards (e.g. Fig. 2, 212), which are associated with mappings to system operations, for example communications configurations, and may comprise a settings card, among other system options. Another type of card includes a channel card (e.g. Fig. configured to stream web based content in a manner that allows for summarization of content, while still providing the ability to fully appreciate the summarized content.

Those skilled in the art will appreciate that previous attempts have been made to present summary views of available content. However, known summarized content typically suffers from significant flaws. For example summarization of web based content simply reduces the display size of the information in the content. With respect to news headlines, for example, this often prevents a user from being able to appreciated the

summarize content. Quite simply truncating a headline prevents the user from understanding the context of the portion of the headline s/he is able to read. In other examples, headlines are display to such a reduce size that an average computer user simply cannot read or appreciate them. Using channel cards according to aspects and embodiments, summarized content may be presented in a manner that permits appreciation and interaction with the summarized content itself. In another example, channel card are configured to present a streamlined view that cannot only be appreciated and interacted, but may be transitioned from one mode of viewing to another without loss of the ability to appreciate and interact with the streamlined view.

According to one aspect, streamlining of the user device and streamlining of the user interface provided in such devices leads to simplified interaction between a user and features. The streamlining may impact not only features of the system, but features provided by services accessed by the system. Streamlined activity leads directly to better adoption, understanding and integration of both new and old features available to users. The consistency of user experience even with third party service providers, for example, fosters familiarity not only with a particular user and his/her interactions with a particular device, but also with other users of the same/similar device. A common experience may be created for multiple users, fostering a community experience. According to one example, providing a common experience includes establishing a global profile for a user of a streamlined device. The global profile, in some examples, is retained in remote storage, and accessed upon start up of any streamlined device. The global profile permits the user's experience to be consistent even across multiple streamlined devices. In one example, configurations and customizations are retained in remote storage; changes on one device may be written to remote storage, propagating changes across multiple streamlined devices that access the remote storage. Thus a common experience is also provided across multiple devices.

According to another aspect, the common experience may also include a community aspect. The community aspect includes sharing of content between users, sharing of content and configurations, sharing of content, configurations, and customizations, among many options. In particular, sharing may involve the transmission of user interface elements to other users. In one example, a user may share a card and any of its configurations with another user. Access to the shared user interface elements, in

some embodiments, facilitates communal computer usage. In one example, a first user may be watching media on their streamlined device, another user known to the first user, may receive a user interface element that retains information related to the accessed content and information related to the present context. That is for the first user watching a movie, the first user may share the user interface element through which s/he is accessing the move, and permit the another user not only to watch the movie, but to take up the movie at the same point in time, so in essence, they get to enjoy the movie together. Content and context retention by user interface elements that can be shared provides unique advantages to the users of the streamlined devices.

According to another aspect, various operations provides on conventional systems are adapted for streamlined processing. In on example, operations that require large amounts of computer storage are transformed in remote storage requests. In one embodiment, a streamlined device is configured to identify local storage request and transform them into a storage request to an on-line service provider identified in a user and/or device profile. In another embodiment, the system prompts a user to identify a service provider in response to a local request. Various operations may be transformed, including download and print operations, among others.

It is to be appreciated that embodiments of the methods and apparatus discussed herein are not limited in application to the details of construction and the arrangement of components set forth in the following description or illustrated in the accompanying figures. The methods and apparatus are capable of implementation in other embodiments and of being practiced or of being carried out in various ways. Examples of specific implementations are provided herein for illustrative purposes only and are not intended to be limiting. In particular, acts, elements and features discussed in connection with any one or more embodiments are not intended to be excluded from a similar role in any other embodiments.

Also, the phraseology and terminology used herein is for the purpose of description and should not be regarded as limiting. Any references to embodiments or elements or acts of the systems and methods herein referred to in the singular may also embrace embodiments including a plurality of these elements, and any references in plural to any embodiment or element or act herein may also embrace embodiments including only a single element. References in the singular or plural form are not intended to limit the

presently disclosed systems or methods, their components, acts, or elements. The use herein of "including," "comprising," "having," "containing," "involving," and variations thereof is meant to encompass the items listed thereafter and equivalents thereof as well as additional items. References to "or" may be construed as inclusive so that any terms described using "or" may indicate any of a single, more than one, and all of the described terms. Any references to front and back, left and right, top and bottom, and upper and lower are intended for convenience of description, not to limit the present systems and methods or their components to any one positional or spatial orientation.

Device Examples and Configuration Options

Various aspects, including the integration between the user interface, its views, and navigation options are further illustrated in the user device itself. According to one embodiment, the user interface and the visual representations that comprise the interface are configured to be responsive to the physical configuration of the user device. In one example, the view presented to user is configured to be responsive to the mode/configuration of the device.

According to one aspect, systems and methods are provided for simplifying the presentation of multi-media features and options into an integrated and streamlined presentation format. Streamlining presentation includes reducing the number of options that a user must navigate/configure in order to take advantage of new systems and features, simplifying the process of adoption and education. In one embodiment a system is provided with only the physical components necessary to achieve streamlined presentation of both operating system features and integration of third party services. For example, a streamlined hardware device provides for (in comparison to typical desktop and laptop systems) a reduced user input platform as a first I/O profile, comprising in one configuration a scroll wheel and a button interface. Other I/O profiles are available for user selection by manipulation of the device itself. In one embodiment, an easel mode presents the user with the first I/O profile and by rotating the computer device about a longitudinal axis; the user may select a second I/O profile, including a keyboard. The transition from one I/O profile to another may also cause the computer device to alter its display. In one example, the user interface provided to the user is responsive to selection of device mode and/or selection of I/O profile.

It is to be appreciated that reducing the number of I/O device achieves simplicity of design and ease of operation by the user, and at the same time may increase the complexity of the graphical user interfaces needed to support interaction with systems and third parties that anticipate, rely on, or expect additional I/O devices. Streamlining device operation by the user is balanced against sophistication of user the interface required to enable user interaction with the same features used with additional I/O devices. According to one embodiment, the user interface layer provides simplified accessibility based on the device's I/O platform, and for some embodiments, the user interface layer is responsive to device configurations that change the device's I/O capabilities. In other embodiments, the user interface is responsive to changes in the device's mode. In some examples, changes in device mode and changes I/O profile will occur together, however, in other examples a change in mode or a change in I/O profile will not require a corresponding change in profile or mode respectively.

One example of a streamlined device includes a portable computer that is configurable between a laptop mode (in which the portable computer has a conventional laptop appearance) and an easel mode in which the base of the computer and its display component stand upright forming an inverted "V," as discussed further herein. Certain aspects and embodiments are directed to a portable computer that is configurable between different operating modes, including a laptop mode (in which the portable computer has a conventional laptop appearance), a flat mode, a frame mode, and an easel mode in which the base of the computer and its display component stand vertically forming an inverted "V," as discussed further herein. Reference to modes of the computer, modes of the device and intended to include the physical configuration of the portable computer/device.

The portable computer is capable of different display formats and functionality in the different modes, and includes a graphical user interface that may work seamlessly with the computer hardware to provide a unified, comfortable, holistic user experience. In particular, the portable computer may provide access to a wide array of functions, both those traditionally provided by computing devices and those traditionally provided by other passive information devices. For example, the hardware and software, including the graphical user interface, of the portable computer may be focused toward providing access to entertainment media, such as audio and video (e.g., playing music, streaming video,

viewing photographs, etc.), email, and internet, while also providing state-of-the-art computer processing capability.

Referring to FIG. 1, there is illustrated one example of a portable computer according to aspects of the invention. In FIG. 1, the portable computer 100 is illustrated in the "laptop" mode, with the display component 102 inclined at a viewing angle from the base 104. The display component 102 is pivotably coupled to the base 104 by a hinge assembly (not shown) that allows the display component to be rotated with respect to the base. The hinge assembly may include a single or multiple hinges, which may be any of a variety of hinge types, including, but not limited, to single-axis hinges, multiple-axis hinges, geared hinges, etc. In one example, the hinge assembly allows the display component 102 to be rotated (or tilted) about a longitudinal axis 101 running along an interface between the display component and the base 104, as illustrated in FIG. 1 and discussed further below. The base 104 includes a keyboard 106 and internal electronic components (not shown), such as a central processing unit, memory, and other components necessary to operate the portable computer, as known to those skilled in the art. In some embodiments, the base 104 may also include a touch pad 108 or trackball (not shown) for receiving user commands, as known to those skilled in the art.

Still referring to FIG. 1, the display component 102 includes a display screen 110, and may also include a camera 112, microphone 114, and infrared receiver 116, as discussed further below. It is to be appreciated that the locations of the camera 112, microphone 114 and infrared receiver 114 are not limited to the example illustrated in FIG. 1, and may be placed in other locations on the display component 102 and/or base 104, as would be recognized by those skilled in the art. The display component 102 may also include cushions 118 that provide soft contact points between the base 104 and the display component 102 when the portable computer is closed. In one example, the cushions 118 are made of rubber. However, it is to be appreciated that the invention is not so limited, and the cushions 118 may comprise materials other than rubber, including, for example, a polymer, felt, or other suitable materials as would be recognized by those skilled in the art.

Referring to FIG. 4, there is illustrated an example of the portable computer 100 configured into the easel mode. To convert the portable computer 100 from the laptop mode (or closed position) into the easel mode, the display component 102 may be folded

away from the base 104, in the same direction as to open the computer (i.e., to configure the computer from the closed position into the laptop mode) such that the base 104 and the display component 102 form an inverted "V" shape with the bottom of the base and the back of the display component face another, as illustrated in FIG. 4. In the easel mode, the display screen 110 is visible and accessible on one side of the portable computer 100 and the keyboard 106 (not shown in FIG. 4) is visible and accessible on the other side.

As illustrated in FIG. 4, in one embodiment, the portable computer may comprise integrated hardware volume controls, including a volume control button 294 and a mute button 296. In one example, the volume control button 294 may be a rocker switch that allows a user to easily increase or decrease the volume of audio played through the speakers 128. When the user presses the volume control button 294, a volume indicator may temporarily appear on the display screen 110, to provide a visual indication of the amount by which the volume is being increased or decreased. Similarly, pressing the mute button 296 may cause a visual indication that the volume is muted to appear on the display screen 110.

According to one embodiment, when the portable computer 100 is configured into the easel mode, the visual display on the display screen 110 is automatically rotated 180 degrees such that the information appears "right-way-up," even through the display screen is upside-down compared to when the portable computer is in the laptop mode. Thus, a user may simply "flip" the portable computer 100 into the easel mode and immediately be able to comfortably view information on the display screen 110, without having to access display screen controls to adjust the orientation of the visual display. In one embodiment, the portable computer 100 includes an orientation (or mode) sensor that is configured to detect whether the portable computer is in the laptop mode or the easel mode, and to adjust the display accordingly. The orientation sensor may be incorporated into the base component 104, for example, underneath the keyboard 106, or into the display component. In one example, locating the orientation sensor in the display component 102, rather than the base 104, may provide more robust detection and therefore, may be presently preferred in some embodiments. The orientation sensor may be used to determine a precise relative orientation of the base component 104 with respect to the display component 102, or vice versa, for example, to determine whether the device is in the laptop mode, easel mode, or some point in between the two modes. In one example, the orientation sensor includes an

accelerometer whose output is fed to the computer operating system (or to dedicated logic circuitry) which then triggers a display inversion as appropriate.

According to one embodiment an accelerometer is used to detect a configuration of the portable computer, although, it is to be appreciated that other sensors and devices may be used to determine a configuration. According to another embodiment, the portable computer may include integrated "navigation" hardware that allows a user to easily and comfortably control various features and functions of the portable computer, to manipulate content displayed on the portable computer, and to interact with visual representations of content display in a user interface. For example, as discussed above, the portable computer 100 may comprise a scroll wheel 132 that allows a user to control, adjust and/or select various functionality of the portable computer. According to another embodiment, the scroll wheel 132 may be used to provide "hardware navigation" through information, such as menus, icons, etc., displayed on the display screen 110, as discussed further below with reference to FIG. 17. A common display configuration used in conventional computers is a "desktop" view in which multiple icons representing links to various programs or applications are displayed over a background image. Navigation may be conventionally performed using a mouse, touch pad or trackball, as known to those skilled in the art.

According to another embodiment, the portable computer 100 includes a streamlined graphical user interface that supports "map" navigation. The map user interface provides a clear overview of the entire computing environment and searching capability within the environment that may be accessed using the scroll wheel 132 and, optionally, one or navigation buttons 166, 168 that may be provided on the base 104 of the portable computer 100 (button 166) and/or in the keyboard 106 (button 168), illustrated in FIG. 17. In one embodiment, the map mode of navigation is a hierarchical mode that reduces the number of items to select amongst at any stage of navigation, thereby facilitating user access with the scroll wheel 132 and, optionally, the navigation button(s) 166, 168. Of course, it is to be appreciated that the map user interface may also be navigated using conventional tools, such as a trackball, touchpad, mouse or arrow keys.

Referring to FIG. 11, there is illustrated a block diagram of one example of an architecture of the portable computer including a map user interface. The user interface "home" screen 170 that displays a plurality of modes of content 172. In the illustrated

example, the home screen 170 contains five modes of content 172; however, it is to be appreciated that the home screen may include more or fewer than five modes of content and that the modes of content may differ from the examples discussed below. According to one example, the modes of content 172 accessible via the home screen 170 may include "media" 172a, "connect" 172b, "web" 172c, "applications" 172d, and "channels" 172e. Using the map user interface, information, programs, features and applications may be grouped into the various modes of content 172. By selecting any mode of content 172, for example, by using the scroll wheel 132 and/or navigation buttons 166, 168, as discussed further below, the user may access the content organized within that mode.

For example, the media mode 172a may provide access to a medial player to play, view, search and organize media such as music, video, photos, etc. The connect mode 172b may provide access to features such as, for example, email, voice-over-IP, instant messaging, etc., and the web mode 172c may provide access to internet browsing and searching. The application mode 172d may provide access to, for example, computer applications or programs, such as word processor, spreadsheet, calculator, etc. In one example, these applications or programs may be provided as web-based services rather than programs or applications residing on the portable computer 100. The channels mode 172e may provide access to different functionality of the portable computer, with the different functions or features defined as different channels. For example, a channel may include an alarm clock channel in which the portable computer is configured to display a clock and can be programmed to activate an alarm, e.g., a sound, piece of music, etc., at a predetermined time. Another example of a channel may include a "photo frame" channel in which the portable computer may be configured to display a pre-selected image or set of images, etc. Another example of a channel is a "television" channel, in which the portable computer is configured to stream Internet television. In one example, a user may configure particular Internet television channels (e.g., a news channel, a movie channel, a home and garden channel, etc.) into sub-channels within the channels mode of content 172(e). Some or all of the modes of content 172 may access, retrieve and/or store information on the Internet 174.

Typically streamlined devices are integrated with remote content storage and/or access, shown at 174. The integration may be provided through third party service providers, in one example photo service FLICKR is integrated with various aspects of the

device and/or the device's user interface to provide seamless access to photo content stored by the third party provider. The integration with remote storage services permits reduced storage capacity on the user device, for example, a portable computer. Other services may be integrated including for example GOOGLE DOCS, for word processing and other office related applications provided on-line. Reducing and/or eliminating the need for non volatile memory in the computer system is advantageous in that the device itself may be reduced in complexity and any associated cost. In some embodiments, a streamlined device doe not incorporate a hard disk drive for storage, providing for any local storage requirement through RAM and Flash memory.

According to one embodiment, the different modes of content 172 may be displayed as a series of bars across the display screen 110, as illustrated in FIG. 12. The following discussion of various features, including hardware navigation through the map user interface may refer primarily to the display configuration illustrated in FIG. 12. However, it is to be appreciated that the invention is not so limited, and the modes of content may be displayed in other configurations, including, for example, a "desktop" and icon configuration, a "dashboard" type display, as illustrated in FIG. 13, or another configuration, as would be recognized by those skilled in the art. Similarly, navigation is discussed below primarily with reference to the scroll wheel 132 and navigation buttons 166, 168; however, it is to be appreciation that navigation may also be accomplished using any of the conventional tools discussed above or known to those skilled in the art.

As discussed above, according to one embodiment, the scroll wheel 132 and, optionally, the navigation buttons 166, 168 may be used to navigate the user interface. Referring again to FIG. 12, scrolling the scroll wheel may sequentially highlight different ones of the modes of content 172. In one example, the highlighting may be achieved by changing the color of the selected mode, and/or by providing a visual indicator, such as a colored bar 176. A highlighted mode 172 may be selected by pressing the scroll wheel, thereby bringing up a new "page" or screen on the user interface corresponding to the selected mode. Once within a selected mode of content 172, the scroll wheel may similarly be used to select particular functions, features or applications within that mode. In one embodiment, the default action for the scroll wheel 132 may vary depending on whether the portable computer 100 is in the laptop mode or the easel mode. For example, in easel mode, the default action for the scroll wheel may be channel selection within the

channels mode 172(e). In one embodiment, the scroll wheel 132 may be depressible as well as scrollable. Thus, pressing the scroll wheel 132, as illustrated in FIG. 4, may allow further control, such as, for example, selecting a channel onto which the user has scrolled, or "play" and "pause" of audio or video being played through the portable computer 100.

As discussed above, according to one embodiment, one or more navigation buttons may be used in conjunction with the scroll wheel. In particular, in one embodiment, the navigation button(s) may be used to change the action of the scroll wheel. As discussed above, in one example, the default action of the scroll wheel is volume control. This action may be changed by pressing the navigation button 166, as illustrated in FIG. 4, for example, from volume control to menu navigation in the user interface, and vice versa.

According to one embodiment, the effect of pressing the navigation button 166 may vary depending on active the mode of content of the portable computer 100. For example, if a user is in the media mode using a photo viewing application, pressing the navigation button 166 may change the action of the scroll wheel 132 from mode navigation to slideshow controls for the photos. When the navigation button 166 is pressed, an control indicator box (similar to the volume indicator box 162 discussed above with reference to FIG. 14) may appear containing different actions for the photo slideshow, such as "play," "next," "back," "skip," "full screen view," etc., and scrolling the scroll wheel 132 may allow a user to select one of these actions. Pressing the navigation button 166 again may return the scroll wheel action to menu navigation, to allow the user to, for example, move to a different feature or application within the active mode, or to select a different mode.

As can be seen in FIG. 4, the navigation button 166 may be easily accessed when the portable computer 100 is in the easel mode, providing a convenient navigation tool for this configuration. A similar navigation button 168 may be provided on the keyboard 106, as illustrated in FIG. 17. In one example, the functionality of the two navigation buttons 166, 168 may be the same, with the different locations providing easy, comfortable access in the different configuration modes (i.e., laptop or easel) of the portable computer 100. Thus, a user may use either navigation button 166 or navigation button 168, depending on personal preference. In another example, the two navigation buttons may have different functionality. For example, the navigation button 166 may be used to alter the action of the scroll wheel 132, as discussed above, while the navigation button 168 is used to

navigate "up" or "down" a level within the map user interface. For example, pressing the navigation button 168 while within a given mode of content may allow the user to "back up" to the home screen; or pressing the navigation button 168 while within a selected channel (in the channel mode of the content 172e) may allow the user to "back-up" to the channel mode main page.

It is to be appreciated that numerous variations on the functionality of the navigation buttons 166, 168 is possible, as would be recognized by those skilled in the art, and the above examples are given for illustration only and are not intended to be limiting. In addition, any functions described with reference to one navigation button (166 or 168) may be instead (or additionally) implemented with the other navigation button. In one example, the function of the navigation buttons 166, 168 may vary depending on whether the portable computer 100 is configured into the laptop mode or the easel mode. For example, only the navigation button 166 may be active in the easel mode, and only the navigation button 168 may be active in the laptop mode. Alternatively, both navigation buttons 166, 168 may be usable in either the laptop mode or the easel mode, but their functionality may vary. For example, when the portable computer 100 is in the easel mode, the default action for the navigation button 166 may be channel selection whereas the default action for the navigation button 168 is to access the "home" screen. Furthermore, the portable computer 100 is not limited to the use of two navigation buttons and may instead comprise only a single navigation button or more than two navigation buttons, any of which may be disposed in the locations described above (e.g., on the rounded portion 120 of the base 104 or on the keyboard 106), or in other locations on the portable computer.

As discussed above, according to one embodiment, the function or display content and/or display orientation of the portable computer may vary when the portable computer is configured from the laptop mode into the easel mode, or vice versa. For example, as discussed above, when the portable computer 100 is configured into the easel mode, the visual display on the display screen 110 is automatically rotated 180 degrees such that the information appears "right-way-up," even through the display screen is upside-down compared to when the portable computer is in the laptop mode. In another example, for at least some activities within at least some modes of content (e.g., viewing a photograph or video), when the portable computer 100 is configured into the easel mode, the display may

automatically adjust to "full screen view" (i.e., the displayed image or video is displayed on the full screen size, rather than in a window) to allow for comfortable viewing.

In addition, as discussed above, the ability to configure the portable computer 100 into either the laptop mode or the easel mode provides enhanced functionality. For example, when the portable computer 100 is not being actively used, the user may configure the portable computer into the easel mode, and program the portable computer to act as a digital photo frame, displaying one or more photos of the user's choice. In the easel mode, the portable computer 100 may occupy a smaller footprint on a surface than in the laptop or closed modes because the base 104 and display component 102 are upright, as illustrated in FIGS. 4 and 5. In addition, because the portable computer can act as a passive information and/or entertainment device, such as a photo frame or clock, as discussed above, the portable computer may provide a useful function even when not being actively used by the user, and may do so (in the easel mode) without taking up much surface area.

It is to be appreciated that although the portable computer 100 is often referred to as being in either the laptop mode or easel mode, other modes or configurations are also possible. For example, as discussed above, because the portable computer 100 can be configured from the closed position, through the laptop mode into the easel mode by rotating the display component 102, a number of configurations are possible in between "true" laptop mode and "true" easel mode. Each different configuration may invoke different functionality and provide a user with a different aspect of a graphical user interface.

In another example, the portable computer 100 may be configured into a "frame" mode, as illustrated in FIG. 26, in which the portable computer is placed on a surface 212 with the keyboard 106 "face down" on the surface 212 and the display 110 facing upward. In the frame mode, the display component 102 may be at a similar orientation, and angle 134, with respect to the base component 104 as in the easel mode. However, rather than the base component 104 and display component 102 being oriented vertically with respect to the surface 212, as in the easel mode (in which the portable computer forms an inverted "V" as discussed above), in the frame mode, the base component 104 may lie flat on the surface 212, as shown in FIG. 26. In one example, software and/or hardware protection may be provided for the keyboard to prevent keys from being pressed (or to prevent the

portable computer from responding to pressed keys) when the portable computer is in the frame mode.

Similarly, referring to FIG. 27, there is illustrated another configuration of the portable computer 100, referring to as the "flat" mode. In the flat mode, the display component 102 may be rotated (or opened) to approximately 180 degrees with respect to the base component 104, such that the base component and display component lay flat on a surface, with the keyboard 106 and display screen 110 exposed, as shown in FIG. 27. Unlike the easel and frame modes, in which the keyboard may be concealed and not easily accessible, in the flat mode, the keyboard is accessible and usable. In addition, as discussed above, the visual display on the display screen 110 may be automatically rotated to accommodate comfortable viewing of information by persons located in different positions relative to the base component 104 or display component 102. The visual display on the display screen 110 may also be manually adjusted by a user using, for example, the keyboard 106, touch pad 108 or mouse (not shown), scroll wheel 132 or navigation buttons (not shown). For example, if a user (located at position A) wishes to display information for a person located opposite the user (at position B), the visual display may be rotated (automatically or manually)180 degrees such that the information appears "right-way-up," to the person at location B, even through the display screen 110 is upside-down for that person. Similarly, in another example, the visual display may be rotated (automatically or manually) 90 degrees such that the information appears "right-way-up," for a person at location C. In one example, a user can "toggle" the visual display among various orientations. For example, a user at location A may have the visual display facing themselves while using the keyboard 106 or other controls to change or access information on the display, then toggle the display orientation 180 or 90 degrees to display the information for persons at locations B or C.

According to another aspect, system and interface streamlining may be employed with devices of multiple configurations. In some embodiments, multiple configurations include a traditional configuration, for example, a configuration similar to a laptop device, and also include new configurations, for example, an easel mode. Some examples of streamlined devices have the ability to change between traditional configurations and other configurations. The change between configurations may change the I/O profile of the device and hence impact the user's interaction with the device itself and any content

displayed on the device. In one embodiment, the user interface is responsive to changes in configuration. In another embodiment, the user interface is responsive to changes in I/O profile.

According to another aspect, the streamlining of the user's multi-media experience incorporates the device the user uses to interact with multi-media sources, whether the sources are on-line or provided by the device itself. Streamlining of the device includes developing consistent user interfaces for the user to access all features presented. The device's graphical user interface layer is customized to the I/O interfaces provided. In one example a device is provided in the form of a portable computer configurable between a laptop mode (in which the portable computer has a conventional laptop appearance) and an easel mode in which the base of the computer and its display component stand upright forming an inverted "V," a closed mode, a laptop mode, an easel mode, a flat mode and a frame mode. According to one embodiment, each of the display modes may employ different I/O profiles.

Some of the aspects may be better understood through the use of examples demonstrating the interactions between a system, the system user, the interfaces provided, and the accessed content. The user experience is improved through simplification of the interactions with the user device - depending on the device's configuration the only activity required by the user may be to use a scroll wheel to identify selection and a button to execute the selection. Moreover, the user experience is enhanced by permitting the user to select the I/O profile s/he is most comfortable with and even select multiple I/O profiles or device configurations depending upon the context presented to the user. It is to be appreciated that adaptations to the user interface layer that maintain consistency while permitting different I/O profiles should be viewed as part of the invention.

The examples of user interactions are provided for the purposes of illustration and should not be viewed as limiting the invention to the interactions described, nor the specific presentations discussed, and it is to be appreciated that other interactions are appropriate and even desired in different circumstances. Additionally, different configurations of the device itself will provide for different user interactions, for example, based on additional hardware not available in another configuration.

Examples of User Experience

In one example, some typical user interactions with electronic content are illustrated. The user interactions occur in accordance with various aspects of the systems and methods for streamlining user interaction with electronic content. In some embodiments, the streamlined device is adapted to accommodate multiple users. In one embodiment, the user identifies him/herself to the device by entering a user name and password. Once the user name and password is accepted the user may begin interacting with the device, and if desired through the device to other content. According to another embodiment, the device may display a "users" screen, incorporating a visual representation for each user. In response to selection by the user of the visual representation the user is identified. Identification may optionally include a password challenge/response after selection of the visual representation. In some embodiments, a camera is available through the user device, and the user's visual representation may be generated by taking a snapshot of the user.

In one embodiment, that act of identifying includes access to remote storage associated with the device and/or the user. Remote storage is accessed to retrieve any global profiles that may exist for the user, and more specifically, any changes that may have been made to the user's global profile. In some embodiments, a local copy of any profile is stored on the device, and the remotely stored profile is used to identify any changes. Changes to profiles may be copied to the remote location or changes in the profile may be retrieved from the remote location. In one example, the local and remote profiles are associated with a revision date. The most recently revised profile may be used as the most up to date profile, with a different version receiving modification as necessary to correspond.

In one alternative, a remote profile may be maintained for the device itself. In another, the device profile may contain information on a number of users. In some embodiments, remote access is used to retrieve configurations and/or settings maintained for any of the device, the user, and groups of users, alone or in combination. According to one aspect, remote storage and/or remote access to user configuration comprises one element of an example system for streamlining user interaction with electronic content.

Once a user is identified (identification may occur by default if only one user has accessed a particular device) the graphical user interface presents a default view of the electronic content available on the device. In one embodiment, the view presented is

responsive to the configuration of the device. According to some embodiments, device configurations may be determined using a sensor embedded in the device. In one example, a sensor is used to provide a signal and from the signal the device's orientation is determined. Alternative methodologies are employed in other embodiments for detecting and determining a device's configuration. In one alternative example, I/O devices may be enabled/disabled based on the physical configuration of the device. For example, during a transition from laptop mode to easel mode, various I/O devices that become inaccessible may be deactivated. Determining what I/O devices are still active and/or available permits identification of the device's configuration. In other embodiments, an accelerometer may be used to detect a device configuration. In one example, a device may be a portable laptop computer. The portable laptop computer may have multiple configurations, including a laptop mode, an easel mode, a frame mode, a flat mode and a closed mode.

In the illustrated example, Fig. 1, the user device is configured in a laptop mode, and has an I/O profile (a set of I/O devices) that one would normally associate with a laptop computer. In this example, the I/O profile includes, in some embodiments, a keyboard, a touch pad, buttons, web cam, and a scroll wheel. The graphical user interface is configured to present a default view that provides the user with contextual options. In this example the present context for the user includes "lean forward" viewing and the computer operations one would typically associate with user of a laptop. Other contexts arise based on configuration of the device (for example in Easel mode) and the computer tasks the user wishes to perform. For an indentified context a default is provided for the user eliminating the requirement of making configuration choices, however, the user is still permitted to accesses the configuration directly to customize it.

Shown in Fig. 2, is an example of a page of the device's home view (200). The home view organizes user interface elements into a mapped based presentation and separates the presentation into logical units based on a single displayed screen, i.e. a page. One function provided by the home view is to serve as an organization of interface elements and/or navigation tools that maps visual representations of available content into a plurality of views of the available content. The home view is also configured to present summarized views of information to the user, so as to reduce the volume of information that a user needs to process in order to access content. In some embodiments, the mapped based interface is also configured to group like computer operations into a section of the

map. Typically, grouped selectable computer content includes mappings to other groupings of lower level functionality. For example, high level navigation options are, typically, first presented to the user. The high level navigation options provide a summarized view of the available content, making content based selections easy to appreciate and accomplish. A user selects a high level navigation operation to navigate to more detailed operations. In some embodiments, the more detailed operations are grouped based on a mode of content. Modes of content may include for example, media, channel, connection, application, and web, among other options.

According to one embodiment, high level functions and low level functions are segregated based on proximity to displays of sources of digital content. For example, a visual representation that maps to the source of digital content is included in a lower level of functionality than the view that organizes the presentation of the visual representation. A view that presents the digital content source itself, is grouped at a lower level than the visual representation that maps to the digital content source. In another embodiment, interfaces that provide navigation operations to digital content form a layer of the graphical user interface, and interfaces that provide interaction options to digital content form a lower layer. In one embodiment, the home view includes maximal display thresholds configured to improve the ability of the user to absorb the information presented. In some embodiments, a maximal number of visual representations per screen is set. In one example, the maximal number of visual representations is used to define a GUI page. In another example, the maximal number of visual representations is associated with a maximal number of full view visual representations, and the page is configured to include portions of views of other visual representations available on adjacent pages. A computer operation that would cause the computer device to exceed the maximal number results in the creation of a new display page. The home view is organized into as many pages are required in order to maintain the maximal threshold of display items.

Typically, the home view is configurable by the user. New items may be added, existing items may be moved and/or removed based on user selection. The home view further comprises some visual representations that can not be removed. Commonly requested system operations have visual representation displayed on the home view that can not be deleted. According to one embodiment, a user may reorganize the display but

not remove system operations. For example, visual representations that map to system operations (e.g. communication configuration and hardware configuration) cannot be remove from the home view. Additionally, some system operations will always be displayed through the home view regardless of frequency of use. Positioning of visual representation is also organized and managed in the home view. Preferably, organization and/or management occurs automatically based on default settings selected for the user. Alternatively, organization and/or management may occur dynamically. For example, a user may make changes to organization and/or management settings on the fly. In another embodiment, default settings control organization and/or management, and an interface is provided to permits a user to makes any changes to the default settings. And in another embodiment, a user may be queried on preferences, the responses are used to establish defaults for operation.

In some embodiments, frequency of use of the visual representations is used to sort the presentation of visual representations on the home view. More frequently accessed visual representations are displayed at a higher position on a page and less frequently accessed representations are displayed at a lower position on the page, and may cause the computer device to display the visual representation on another page.

In a typically configuration, visual representations are organized based upon creation time, although certain visual representations take precedence in the display. According to one aspect, display precedence is established from left to right and from top to bottom. In one embodiment, the visual representation displayed in the upper left portion of the display screen is associated with the highest precedence. Precedence in the display may be influenced and even ignored with respect to certain system operations and the visual representations that map to them. For example, a visual representation mapping to display for a user's bookmarks may appear in the upper left corner. According to one embodiment, the positioning of the familiar option relating to bookmarks as the visual representation of the highest precedence provides users with an option familiar to traditional use of computer systems. Although presented as a streamlined interface element, the bookmark visual representation is configured to evoke familiarity in the typical computer user.

According to another embodiment, the visual representation that maps to the computer functionality for creating interacting with a new web page is the only

representation that has a fixed position, relative to the display precedence. In one example, the element for triggering interaction with a new web page is always display in the bottom right corner. The other visual representation may be reshuffled based on frequency of use, and in other embodiments a user may also reshuffle the visual representation by drag and drop procedures, however the element for triggering interaction with a new web page remains in the bottom right corner, and in one example, will move to a new page in response to a request to display an new web page element when the element is already displayed in the bottom right corner of a page. Drag and drop operations may be associated with a drag threshold. In one example, a drag threshold is applied to require a small movement of the identified card before the device executes the drag operation. The drag threshold may be measure on the order of pixels, and may be any number of pixels that prevent accidental dragging in response to the user attempting to click on a card. In one embodiment, the drag threshold is set to 5 pixels. Other thresholds may be used, 2, 3, 4, 6, ...pixels as examples.

Other display precedence may be employed. For example, display precedence may be configured based on user location and language convention for the user location. The written English language is read from left to right and from top to bottom; however, other languages are not. According to some embodiments, display precedence and any corresponding animations are configured to correspond with the conventions of the local language, for example displaying from right to left.

Referring again to FIG. 2, shown is an example of a page of the home view, with user interface elements organized to present the user with summary information of available content. Shown in FIG.2, at 202, is a representation of picture and video content available to the user. At 204, a visual representation of customized content is available. The customized content (discussed further herein) comprises rss items from a web location distributing via an rss feed. In example shown, 204, comprises a channel card. The channel card is configured to allow easy interaction with a plurality of rss items, and further configured to be responsive to both lean forward interactions and lean backward modes of interaction. The other user interface elements include, for example, visual representations of web based content, specialized user interface elements for providing customized interaction with web based content in the form of channels, and system elements.

A typical activity for any user includes reading his/her email. The user may observe an e-mail from for example, the user's credit card company, Chase. The home view (200) is the default vehicle through which a user interacts with the device and with electronic content displayed on the device. The home view presents an organization of other interactive elements (202 – 216). Accessing e-mail occurs in response to selecting the visual representation (208) that maps to YAHOO! MAIL content. Upon selecting (208) the device executes a mapping from the visual representation to the content and in response the device presents a first view of the mapped content. According to one embodiment, in response to selection of a visual representation mapping to content of web page a web page view is displayed. The web page view is a zoomed in expression of the web based content mapped by the visual representation.

Once a user reaches the web page view (300) FIG. 3A, the user may interact with the content shown. Although it is to be appreciated that other representations may mapped to different views, and different view may be used to map to further views. (302) shows an e-mail being reviewed by the user, and more specifically an e-mail from Chase Bank indicating that the user's credit card statement has issued. The body of the e-mail (304) includes a link (306) for accessing Chase's website. Selecting the link invokes an open new page view operation by default, and in response to selection of (306) the user sees an animation returning the user to the home view (200). The visual representation for "Browse the web" (214) reveals the creation of a new visual representation for accessing web content (216) by sliding away from a new visual representation the takes the former place of (214). The computer system displays an animation that shows the computer display zooming into the page view (300) of element (214), shown in FIG. 3B. The user logs in and reviews his/her balance, shown in FIG.3C at (350). The web page view further comprises navigation element (352). The user selects (352) to return the home view (200), selects (216) to access a new web page and in response a new web content visual representation is created, further the device shows the display zooming into the new content.

FIG. 5 displays a quick access view (500). As the new card has not yet been mapped to content, the device displays content options in order to generate a mapping. In one example, the content options may be based on frequency of access. Shown at (502) are visual representations generated from the most frequently visited content. Selecting

any of the visual representations in the body (502) causes the device to associate the mapping with the new card and zoom into the selected content display. At (504) provided as an element of the view's header (506) is a bookmarks control. Through (504) bookmarks control a user may access content not display in the frequency list (although a user may also enter a uniform resource identifier at (508).

In response to the selection of bookmarks a list of bookmarked content is displayed for selection, FIG. 6, 600. Upon selecting (602) a mapping to the bookmarked content is associated with the new visual representation. In one alternative, a user may enter a uri for a online source to associated with a new visual representation. The computer zooms into the selected content and in this example, displays the web page view for (602), Bank of America's (BOA) web site, shown in FIG. 7A at (700). The user logs in at (702) and is able to pay the Chase bill just reviewed, shown at FIG. 7B, (700). Having visual representations mapped to content available, improves the user's ability to transition between content views. By selecting the navigation element (752) the user is returned to the home view, FIG.8, (800), showing the visual representation (802) mapped to Chase's web page content and the newly created visual representation (804) mapped to Bank of America's web site content. Selecting (802) returns the user to the Chase content with the user's state preserved from the last visit, FIG. 3C, (350). The user is able to immediately review the statement balance, and by selecting navigation element (352) return to the home view (800) select (804) and enter the amount due for the Chase credit card at (754).

It is to be appreciated that visual representations mapped to computer content facilitate transitions between content, and further by providing state preserving representations a user is able to quickly retrieve and employ information learned from content.

According to another aspect, the selection of a new visual representation is configured to employ a timer. According to some embodiments, the timer is configurable based on user selection, so that the animation may take longer, shorter, and in some embodiments the user is permitted to disable the animation entirely – in one example this is accomplished by setting the timer to allow 0 seconds for the animation, in another example the animation is simply disabled. In some embodiments, the timer is configurable by the system. Over the course of use, the allotted time may be reduced by the system automatically. Once a user has reached a certain time on the streamlined

device, the animation may be automatically disabled by the system. For some embodiments where the timer may be configured based on time of use, different timers may be employed for different user profiles. Thus an experienced user may no longer see the animation, whereas a novice user on the same device would see an extended version of the animation.

Graphical User Interface

Referring again to FIG. 11, there is illustrated a block diagram of one example of an architecture of the portable computer including a map user interface. The user interface "home" screen 170 that displays a plurality of modes of content 172. In the illustrated example, the home screen 170 contains five modes of content 172; however, it is to be appreciated that the home screen may include more or fewer than five modes of content and that the modes of content may differ from the examples discussed. It should also be appreciated that different architectures may be invoked in response to different device modes. For example, a portable computer in laptop mode may display a home view as discussed with respect to Fig. 11, when configured in Easel mode, user is presented with a Channel View. Shown with respect to Fig. 23 is an example of a portable computer set in Easel mode, displaying a channel view. The Channel view may also display a plurality of modes of content. In Fig. 23 shown are visual representations of content (2304-2308) with associated mappings.

According to another aspect, streamlining the presentation and integration of features and services includes simplifying the I/O devices that a user needs to operate in order to access features of the computer system and the features of any available service. According to another aspect, streamlining includes developing consistent visual representations of available content (whether on the computer system itself or from service providers). In another aspect, the organization of interactive elements and responsiveness of the organization to navigation options, device configurations, and user preferences improves the user's ability to interact with the computer system and its content. In one embodiment, system features and web features are consistently presented as cards for the user to interact with to achieve their computer objectives. In some embodiments, cards comprise part of an interface layer between a computer user and a user's computer based objective and/or computer operation. In some embodiments, the number and type of cards are presented in as few as three classes and/or types. Each card for example may be

similar in aspect to the other, but each performing a different class of function on the computer system.

Referring to FIG. 9, shown is a conceptual model 900 of an example graphical user interface. As shown, in FIG. 9, through a streamlined device 901 a user will interact will a number of views of computer based content. In example model 900, depending on the device's configuration a user will be presented a home view 912 or a channel card view 914. Conceptually 910 forms a layer of the mapped based user interface, wherein the layer is configured to organize, manage and display streamlined views to the device's user. Layer 910 organizes, manages and displays objects of layer 920. Layer 920, according to some embodiments includes cards 921 which are selectable visual representations that are mapped either to computer functions or available computer content. Cards further comprise web cards 922, that map to views of web content including web pages; channel cards 924 that map to customized views of content including web based content and picture and video content; nascent cards 926 that map to system functionality; system cards 928 that map to system functionality; and shared cards 929 that can be any of the former discussed cards shared from another user and/or streamlined device. The card layer 920 maps either to computer functionality executed upon selection or additional views to provide interactive displays to the device' user, for example, the views illustrated in layer 930. Page view 932, according to one example, is a zoomed in expression of a web page. At 940 shown is another layer which includes a screen saver view, 942. In one embodiment, the screen saver view is a passive view. In one example, the screen saver view may be activated by the computer system remaining idle for a period of time. In one embodiment, the screen saver view displays content from channel cards designated by a user in an options menu. In another embodiment, the screen saver view displays content from a pictures and video card. In another embodiment, the screen saver view displays content from a shared card.

According to one embodiment, channel card view 914 comprises a view of the channel cards that are available to a user, and in another embodiment includes a channel selector (not shown). The channel selector is a selectable display configured to be responsive to manipulation of a scroll wheel. In one example, the channel selector is configured to display a rolodex of available channel cards and manipulation of a scroll wheel flips through the visual rolodex. Selection of one of the channel cards invokes any

of a channel page view 934, content menu, and a channel card full view, depending upon the device's configuration, and in some examples the result is responsive to where on the card a selection was made. Various cards, depending on the content mapped to, may also provide other views for rendering and providing for user interaction with content, for example, time, 939, album, 936, and lens, 938 views. It is to be appreciated that the conceptual model illustrated in FIG. 9 is only one example of a conceptual model of the graphical user interface for streamlining user interaction with electronic content. Other conceptual models may be employed, for example only some of the layers may be employed, additional layers may be used, and different segmentations of the layers may be provided.

According to one embodiment, a method of presenting a streamlined graphical user interface for a streamlined device includes an example process 5000, FIG. 50. Process 5000 provides for organizing a plurality of views and GUI elements into a consistent presentation for user interaction. At 5002 provided is a first visual representation for displaying multiple content modes mapped to a view of computer content. At 5004, a plurality of visual representations are organized by type of computer operation. At 5006, the graphical user interface presents higher level operations to users as a view including a group of visual representations. AT 5008, a user is permitted to select from the group of visual representations to navigate to lower level functions provided by different views of computer content. At optional step 5010, a user may be permitted to select from within different groups of visual representations to navigate to further lower level views of computer content.

According to another aspect, layers of the conceptual model are configured to respond to device configurations by defaulting and/or transitioning to different views based on device configuration. Typically a device configured in a laptop mode displays a home view, 912, to a user as the default view. In response to a transition in mode between laptop and easel the computer transitions the computer display from the home view, 912, to the channel view, 914, as the default. A user may elect to change the default view, for example by selecting a navigation button that executes a return to the home view. In one example, 168, FIG. 17, is configured to return a user to a home view in response to selection of 168, when the computer display is not on the home view. In the home view, a user may invoke a channel card view, 914, by manipulating scroll wheel, 132.

Home View Embodiments

Referring again to FIG. 2, shown is an example page of a home view, 200. Home views according to various embodiments are configured to render consistent organization of elements of the graphical user interface. Each page rendered in home view comprises a home navigation tool 250, a header 252, and a web search box 254. For home views which include multiple pages, a hint or cut out of adjacent displays are rendered at 256, for example. Hint or cut outs of adjacent displays may also occur at the bottom of the display screen, the top of the display screen, and both top and bottom, where multiple adjacent pages are present. 250, home navigation tool is responsive to the context in which it is executed. For example, the home navigation tool, 250, when selected causes the computer to display the last accessed view before the computer displayed the home view. Where a user navigates to the home view, 200, from a web page view, the selection of the home navigation tool 250 caused the computer to display the previous web page view. In other examples, the home navigation tool permits, toggling between other views and the home view, as illustrated in FIG. 9, at 932-939 and/or 914.

According to some embodiments, the web page view includes a navigation tool, 350, FIG.3C, and in response to selection, causes the computer to display the home view, 200. Other elements included in the home view, for example, header 252 are configured to provide consistency in the home view across pages and in some embodiments across the user interface. Each page of the home view, 200, further comprises a body, 258, in which cards 202-216 are displayed. The body is associated with a maximal display threshold. The maximal display threshold governs the number of GUI elements displayed per home view page. In one embodiment, the displayed elements may comprise cards, and the maximal display threshold is set to display twelve cards. In addition to the maximal number of displayed elements, the home view may also comprise indicators of adjacent content at 256. The device generates a new page display for the home view, 2000, in response to exceeding the maximal display threshold.

Home view 200 is the default view in laptop mode, and may be implemented as the default view in other device modes (e.g. frame, easel, flat modes). According to some embodiments, the home view is the primary mechanism for permitting users to access cards and navigation through content viewed on the device. In the home view a user can

access open web sessions, view and manage their channels, initiate new web sessions, and launch other activities.

Cards, e.g. 202-216, form comprises a plurality of types. Some card types are organized by function, some by content. The home view is comprised of various cards, each card providing access to computer based content. According to one aspect, cards can be thought of as the building blocks of the user interface, providing access to a plurality of views and/or content. Indeed, cards as elements of the GUI, are configured to be shared across users and across other streamlined devices. The ability to employ the features and functions of card based elements may be limited to streamlined devices, although cards and settings may be shared with traditional devices.

Shown in home view 200, are web cards 206, 208, and 216, channel cards 204, and 210, further shown in home view 200 are special system cards that map to content and system operations, for example bookmark card 212. The bookmark card 212 is configured to provide traditional computer operations associated with conventional systems and browsing methods. The bookmark card serves as learning tool, to provide features with which user are familiar in a new format that encourages further integration of card based interactions. According to one aspect, card interfaces are generated by a user for each web based interaction, eliminating the need for convention navigation in the form of bookmarks. Another example of a system card appears at 214. 214 maps to functionality that when selected causes the computer system to execute a web card generation process. FIG.10 illustrates an example generation process, 1000. Example processes, 1000, begins at 1002, in response to selection of a card or embedded web link (e.g. 214 of FIG. 2) that is associated with a mapping to functionality that generates a new web card. For example process 1000, may be initiated from a page view of a web card in response to selection of link. According to one embodiment, the behavior of the streamlined device depends on instruction embedded within a selected link. In particular, the device in response to selection of a navigation link navigates to the identified location in the same page view. If the link encodes an instruction for open in new window and/or open in new tab, the device in response to selection generates a new card and displays the page view of the new card. Alternatively, defaults may be established for link handling, including a default for selection of a link contained inside an e-mail, which may default to a "new card" mapping, whereas in some embodiments, links directed to the same domain as the current view

default to navigation functionality within the same window. In other words, in response to a selection of a link within a certain web-page, directing navigation to another location with in the same web page, the default functionality executed, caused the device to navigate to the selected location within the same window.

According to another embodiment, handling of web links may also be governed entirely by the settings contained in the selected link. For example, the device may execute process 1000 in response to execution of a link including the instruction to open in new window. The device may also execute process 1000 in response to execution of a link including an instruction to open in a new tab. In one embodiment, links without such references are processed by the web page view navigating to the linked location without invoking process 1000, for example.

At 1002, the mapping is executed and the computer device determines its state at 1004. The state determination is configured to identify a current view setting for the device. Current view setting may be limited to an indication that the device is current showing the home view. At 1006Yes, the device is currently showing the home view, and the device executes a card generation animation, at 1008. In one example, the animation causes the device to display a browse the web card 214, FIG. 2, sliding away from a new visual representation the takes the former place of 214. One the new card image is shown the computer display renders an animation the causes the user to perceive zooming into the newly created card at 1010. Alternatively, it is determined that the device's current display is not the home view at 1006NO. At 1012, apparent motion relative to the user is rendered by the device to provide the appearing of zooming to the home display. Other animations may be employed to establish for the user the perception of motion to the home view. Once at the home view, process 1000, proceeds as before.

According to one embodiment, the home view, FIG. 2. 200, is configured to manage and organize cards. The home view provides a simple and convenient mode of navigating through the features and content accessible through the device by organizing and managing cards.

Card Examples

According to some embodiments of systems and methods for streamlining user interaction with electronic content, visual representation that render computer operation and/or content in a consistent manner further comprise cards. According to one

embodiment, cards may further comprise types, including web cards, which map to active web pages. In some embodiments, device configuration sensitive displays are provided through a graphical user interface. In some embodiments the device configuration sensitive displays include cards. Cards may come in a number of forms. In some embodiments cards may be classified according to the functionality that they provide to a particular user. For example, system cards provide and display computer system functionality that maybe frequently accessed during ordinary computer user and/or may be required for computer use. In some embodiments, web cards provide a user interface for web based content and/or web based activity. In some embodiments, channel cards provide additional features that enable a user to better interact with web based content, and in another example, channel cards provide interactive views by utilizing different content presentations provided by a web source. Consistent user interfaces provide an access layer to system and web based content. Consistent user interfaces are used to access web based content, and even content and applications provided by third parties.

In one example, a web card presents a thumbnail view of the current state of the web page. In another example, the web page card presents a cut out view of the web page based on computer focus within the page at the time the web page view was exited. FIG. 14 illustrates, according to one embodiment, the behavior and rendered display of certain cards responsive to computer focus and selection by a user. A card may be in a number of states based on computer focus. One example of computer focus would include "hover" 1404 – hover indicates the movement of a pointer, typically represented by a white arrow on the computer system display, over a card. A card may be in a normal state 1402 when not in focus.

Focus is intended to include any identification by the computer system of the card, short of execution of the mapping associated with it. For example, focus should include identification by tabbing through available cards, identification by using hotkeys, among other options that result in computer focus resolving on the card. The terms computer focus and focus should be read to include hovering over a screen element, tool, or other visual representation displayed on a computer system display. In one example, focus follows a displayed pointer, and movement of the pointer with, for example, a mouse causes the computer system to resolve computer focus on the visual object under the pointer display. Selection by a user or a computer system may include focus and visual

objects displayed on a computer system display may be selected by moving a displayed pointer. In some embodiments, selection may be accomplished by clicking on a visual object using a pointer displayed on the computer screen. A second "click" may then cause the computer system to execute functionality associated with the visual object. Execution should be read to include initiating an operation associated with a visual object, in one example execution will include clicking on a visual object (single or multiple "clicks"), by positioning a pointer display over the visual object and depressing a button to initiate the operation.

Focus may be resolved on a computer system by analyzing content intended to be displayed before its display on the computer system, additionally focus may be responsive to actions taken on the display through for example pointing devices.

According to one embodiment, when a web card or channel card appears is in a hover state 1404, additional options are display in the card header, for example at 1450. The additional tools displayed in the card header permit a user to select the options associated with the card. The options view for a card 1406, displays available selections contained in the options. For a web card 1410, the options include make a channel 1452. The selection of make a channel at 1452 causes the device to execute functionality that transforms the web card into a channel card. The transformation from web card to channel card includes transforming the display image of the card element on any corresponding view.

Typically the transformation may only be made for a web card that references a content including a rss feed. The items in the rss feed are configured into a customized presentation – as for example a channel card 1412 (discussed further herein). For a channel card 1412, additional options are include show in screensaver, for example. Other states may impact the display of web card including a drag and drop state. Upon focus, the additional tools will resolve in the header section of the card, the additional tools may be displayed as icons, as shown in FIG. 14, and may also be rendered as selectable text options include "bookmark," "share," "options," and "close." If a user depresses the button control and does not release, the user may user drag and drop the card within the home view. The card may be dragged across pages of the home view, and the user may reorder the presentation of cards in the home view using multiple drag and drop

operations. According to one embodiment, as a card is dragged across the home view, all displaced cards will appear to move into new places.

According to another aspect, computer content and interactive functionality is recast into cards. In one embodiment, the card comprises a visual representation of web content that simplify the user's interaction with even the most sophistication on-line tools. Cards are configured to present a summarized view of available content and/or present a visual indication of available functions. According to one embodiment, cards form a part of the structure of the graphical user interface between the system and the user. In various embodiments, cards are configured to be context and/or content sensitive. Some cards are configured to be persistent. Persistent card may be removed by an affirmative act of the user

With cards, content can be easily and visually absorbed by a user. In some embodiments, cards serve to maintain a current state of the user's activity. And in some embodiments, cards also serve to focus the displayed content on contextual information. Cards may be configurable by the users. Configurations options are presented to the user consistently. In some examples, this includes displaying consistent animations designed to draw the user's focus to the particular activity and to provide comfort level for the activity being displayed.

Shown in Fig. 43 is an example process 4300 for streamlining user interactions with computer content. The process includes presenting a consistent look and feel for user access to computer operations and computer content for user interface elements that also provide for a reduction in decision making requirements imposed on a user during conventional computer use. At 4302, a user is presented with a first visual representation in a computer display, the visual representation is responsive to computer focus and at 4304, and the user is permitted to resolve computer focus by selecting the visual representation. Selection and focus can be thought of in terms of a visual pointer display on the computer system display, by moving the pointer over an object displayed on the computer display, computer focus may be resolved on the visual object. Alternatively, a user may have to indicate a selection of the object by clicking on a mouse button for example.

According to one embodiment clicking is not required. In another embodiment, the pointer being displayed above a visual object activates a "hover" state. In response to

hovering, computer focus is resolved on the visual object. At 4306, a focus visual representation is displayed to the user. According to one embodiment, the visual representation and the focus representation are configured to have common elements, and in particular, a header and body display for rendering computer content associated with the visual representations. The focus visual representation including a header and body display summarizing at least one of computer content and computer operations are shown at 4308. The visual representations present a multitude of computer content in a streamlined form, in other words, the visual representation forms an indirection layer of functionality that provides a window into digital content, and/or computer operations linked to the visual representation. In particular, a visual representation mapped to a web page for example, provides a view of the web page in the body of the visual representation and provides additional information about the web page in the header display. The header display may also include tools for providing easy access to computer functionality associated with the web page and/or its content. In one example the header display only display the tools in the focus visual representation so the initial view of the content is not cluttered with tools that are not needed. Further, in one embodiment, the tools only display in response to focus, in other words, only when a user indicates they are necessary by moving a display pointer over the visual representation. Further computer logic may be embodied in process 4300, responsive to a display position of a pointer displayed on the computer screen. In response to the display position of the pointer occupying the same location as another visual object, computer focus is resolved on that object, causing the computer system to determine functionality associated with the object.

In one example, the object is a visual representation, and in response to moving the pointer over the visual representation, the computer is caused to display a focus visual representation associated with the visual representation. In one example, computer focus remains with the focus representation and functionality associated with the focus representation is made available for execution. Other operations including display of a header responsive to focus may be executed. At 4310, a mapping associated with at least one of the focus visual representation and the visual representation is executed causing the computer system to navigate to a content view. The content view may include a display of computer operations. In one alternative, the content view provides an interactive view of computer content. In one example the computer content, comprises online content viewed

through a web browser. In another example, the content view is presented in a similar format as the visual representation used to navigate to the content. In one particular example, the content view includes a header display and a body display, and the content is displayed in the body portion. The header portion provides additional information on the content, for example a title, and may further provide additional tools that are responsive to focus. Again providing tools that resolve when needed and disappear when not reduces the amount of information a computer user need to assimilate in order to use a computer system.

All computer content and operations can be configured to display in visual representations and respective focus visual representations, providing a user with a streamlined presentation of computer content and operations. According to another example, different content types are presented through visual representation of a similar format. In one embodiment, the visual representations comprise cards as discussed herein.

A process 4400 may be invoked by streamlined computer system as part of process 4300. Additionally, process 4400 may operate independently or be called from other processes. Shown in Fig. 44 is a process 4400, for permitting a user to interact with computer content. At 4402, a computer system displays a first content view. The first content view is configured to display in a similar format as a visual representation selected by the user to navigate to the content view. In one embodiment, the first content view includes a header and body display. In another embodiment the content view is a zoomed in view of the visual representation used to navigate to the content view. At 4404, an enlarged view of the first visual representation is displayed. In one example, the content view comprises a web browser view of a web page displayed in the body of the content view. The visual representation used to navigate to the content view displays a portion of the web browser in the body of the visual representation. At 4406, a user is permitted to interact with the content displayed in the body of the content view. The user is further permitting to access options associated with the content through the header display. Optionally, further computer logic may be included in process 4400 for presenting focus and unfocused views of the header in the content view.

According to another aspect, cards types should be clearly defined by color scheme and appearance, while at the same time maintaining a similar format. For example the similar format should include header placement and sizing, display of tools, title and frame

size. In one embodiment, a color scheme configured to differentiate card types provides for web cards with white headers with the content displayed on the web card showing as a thumbnail of the current state of the page. Channel cards are configured with black headers, and the content presented in the channel card comprises a simplified representation of web content based on RSS feeds or custom visualizations of some non-RSS websites. Customized visualizations may be pre-loaded on the device for specific websites, or may be provided as part of a remotely stored device profile and/or global profile. Updates to the device profile and/or a global profile would include development of customized visualizations of non-RSS websites, and access to remote storage trigger delivery of the customized visualizations. According to one embodiment, only sites for which RSS or custom visualizations are available can be displayed as channel cards.

System cards are shown either with blue headers or grey headers. System cards may be further classified to include nascent cards. "Browse the Web" card, FIG. 2, 214 is an example of a nascent card. The nascent card may be configured so it position is not configurable, nor is a user able to remove the card from the home view, or any view. The nascent card maps to functionality necessary to operation of the streamlined device, and thus no option to close and/or remove it is available. Other system cards are configured to represent activities that have been specifically designed such as for example, photos & video card(s). The other system cards map to functionality also regarded as necessary so that the other system cards can not be deleted, however, the other system cards can be reorganized in for example the home view. Functionality mapped to by the other system cards include communications card, for configuring wireless access of the device, bookmarks for presenting conventional styled web page bookmarks, camera for providing for configuration and operation of a camera, either embedded in the device upon construction, or incorporated through for example a USB port.

In one embodiment, a system card is mapped to functionality to provide a user with streamlined access to web bookmarks. In one example, a bookmark card is provided that is always accessible from the home view. As with other system cards, the bookmark card comprises a header and a body. According to one embodiment, the body display for the bookmark card is unique to the bookmark card. Bookmarks are retrieved and displayed in the bookmark card one at a time. In one example, the bookmark card indicates in the body

display the number of the bookmark in the list and the total number of bookmarks available.

According to some embodiments, the interactivity of individual cards is limited to navigation to a page view. For example, a user can not change the content of a card by interacting only with the card. In other embodiments, channel cards, for example, provide a user with the option of interacting directly with the card. Upon hover, channel cards presenting news feeds may resolve navigation tools configured to step through individual rss items displayed in the channel card. Additionally, selection within a channel card presenting a news feed causes the device to execute different mappings depending on what part of the channel card was selected for execution. Clicking directly on an rss feed headline for example, caused the device to execute a mapping to the web page view for that article. Selecting the body of the channel card causes the device to execute a mapping to the channel full view. Selection within the channel full view causes the device to display a content menu, responsive to manipulation of a scroll wheel.

In an embodiment employing a three card presentation, the cards that are presented provide the user with the ability to interact with system specific features. System features may be invoked and display using consistent presentation and/or animation. Consistent presentation of like features may engender a comfort level in the user for new features that appear using the same and/or similar presentation. Additionally, where a user invokes features in a similar or consistent manner, access of new features is facilitated and user comfort level may be increased. For example, a nascent card, is a system card that provides for consistent implementation of user activity and/or a computer objective desired by the user. In one embodiment, the "new card" card is a visual representation of a system placeholder for generation and presentation of new card that a user may created during the course of ordinary activity. By selecting the new card (for example, creating a web card used to interact with web content) a consistent animation may be employed to display to the user the creation of the new web card utilizing the nascent "new card" card. Other system features may be presented through system cards. Typically, system cards will represent functionality used most frequently and/or functionality that should always be available and not subject to removal by a user. Other card types, include web cards that are used to present web content, and channel cards that are used to provide to a user easy and/or consistent access to additional features.

According to another aspect, features of cards may include consistent navigation tools, consistent content display – including limiting the ability to alter content of a card through user interaction with the card, state representative images of content, state and context representative images of content, customized visualization of content, and in some examples customized visualizations include information derived from rss content. In one embodiment, user interactions with cards are also streamlined. In another embodiment, when card configurations and/or card options are selected by a user (if available) a consistent animation is presented to the user. For example, selection of a card's options may cause an animation displaying the flipping of the card and the revelation of user selectable options. Options, for example, may include permitting the content reflected in the card to be displayed as a screen saver. Certain features may only be available for certain cards types. In one embodiment for example only channel cards (discussed in greater detail herein) may be displayed in the screensaver mode, thus only channel cards will display the option to permit display in screensaver. In another embodiment, certain card types may be converted through user selection. In one embodiment, web cards may be converted into channel cards. It is realized that the segregation of functions between the card types may improve user interaction and adoption of the different feature sets available to each.

According to another embodiment, systems and methods for streamlining user interaction with electronic content may include a process for generating new visual representations mapped to computer content. Shown in Fig. 47A is an example process 4700, for generating a user interface element. At 4702, a visual representation associated with a computer operation for creating a new visual representation is displayed on a computer system display. The visual representation may comprise a nascent card. Nascent cards are configured to always be available to a user, that is, they are configured so a user can not remove them. In some embodiments, the position of the display of nascent cards cannot be changed by the user. In one embodiment, the nascent card is always displayed in a home view, at the bottom right corner of a home view page. For a new page this may include the nascent card appearing in the upper left corner of the page, when no other cards are displayed on the same page. At 4704, execution of the functionality associated with the visual representation occurs. At 4706, a first animation is displayed to the computer system user showing the visual representation sliding away

from its present location to reveal a new visual representation. At 4708, a second animation is displayed to a user showing the computer system zoom into the new visual representation to present a quick access view at 4710.

The quick access view is configured to permit a user to select computer content to associate with the new visual representation. In one example, this includes presenting a display of frequently accessed web content (e.g. web pages) to the user in the quick access display. It is likely that the user will intend to return to a page frequently accessed, in which case, the display will meet the users needs, however, the quick access view is further configured to permit entry of a uniform resource indicator (e.g. a url), and further configured to allow a user to request display of bookmarked locations. At 4712, a user is permitted to select computer content to associate with the new visual representation, and in response to selection of the computer content, the computer system displays an animation to the user depicting the computer system zooming into a first view of the selected content at 4714.

In one alternative, new visual representation may be generated without selecting a nascent card, in process 4750, Fig. 47B. For example, a web card may include a hyperlink directing a computer system to display the linked web page in a new window. At 4752, a user selects an open in new window link. In one alternative, the link may include instruction to open an new tab. In response to a request to display a web page in a new window, a new visual representation is generated and associated with a mapping to the web page. The computer system displays a transition from the current web card view to the home view, 4754, displaying the nascent card. In an optional step, the process zooms out the home view so that the nascent card is rendered on one page. The system presents an animation to the user, 4756, similar to step 4706, showing the nascent card sliding away from its position, revealing a new visual representation. The system then zooms in on the new representation, 4758, displaying a first view of the mapped content, 4760.

Common Card Configurations

According to one aspect, cards should have common features to promote user acceptance and improve adoption of different cards, while providing familiar a form. According to some embodiments, most cards are configured with a similar anatomy. According to some embodiments, cards comprise certain common elements described with reference to illustrated examples.

With reference to FIG. 15A shown is an example of a web card when not in focus, however, the common features among the cards are discussed in greater detail. Header 1502 run along the top of the card. The color depends on the color scheme employed to differentiation the type of card: in one example white is used for web cards, black for channel cards, and blue and grey for system cards. Optionally the header includes a favicon 1504 (the favicon may be retrieved from the site being view in the case of web and channel cards and a custom favicon is employed for system cards). The header further comprises a title 1506 for the site or activity conducted, and a body 1508. In response to focus on a card the display of the card becomes a little larger relative to its display when out of focus and the card controls 1552-1556, FIG. 15B, are revealed on the header, when in a focused state.

Card options 1552, reveals the card options, and may in some embodiments invoke an animation of the card flipping to reveal selectable options. Share, 1554, is configured to permit a user to share the card with other user. Delete, 1556, removes the card from the home view. Card controls, such as 1552-1556 are typically not available for system cards, which typically can not be shared or deleted. According to one embodiment, the photos & video system card is configured to display the card options (in one example the photo & video system card permits selection of "Show in screensaver"). 1508, FIG. 15A, card body varies by the type of card displayed. In one embodiment, a web card body 1508 comprises a thumbnail of the current state of the web page. The current state thumbnail may be updated. Updates may occur in conjunction with a timer. Typically the timer is set for default operation, and is not configurable by a user, although in some embodiments a user may access and modify an update interval for web cards through system configurations.

The body of a channel card (not shown) comprises a visualization of the rss feed from the web site source. Sites that do not have rss feeds, typically, will not be able to be displayed as channel cards. However, customized visualizations for some static sites are preloaded and for the preloaded static sites an rss feed is not used to display the web site content in a channel card. System card body (not shown) comprises a custom image configured to represent the system activity mapped to by the system card.

Options and Information Associated with Various Card Embodiments

According to one embodiment, selection of the card options icon causes the device to display a visualization of the card turning over. The "back side" of the card, FIG. 16 (showing a plurality of examples of the backs of various card types) comprises the following options: Show as channel 1602, which transforms a web card into a channel card, and vice-versa, based either upon checking or unchecking box 1604. If the channel is a photo and video channel, this control reads "Show as channel using [lens]." A lens is a customized visualization for computer content. Shown in FIG. 16 is an example lens "Slideshow" at 1606.

According to another embodiment, the option for show as channel is either shown as permanently checked for system cards that are always available as a channel (e.g. the photos and video card), or as absent for system cards that are not available as a channel (e.g. a system settings card or communications card). Show in screensaver, 1608, is an available option for channel cards. Typically 1608 is not an available option for other card types, however, the photo and video system card does permit its content to be displayed in the screensaver. According to one example, new channel cards are configured to not display in screensaver mode by default and this option is not checked for new channel cards. Shared from, 1610, provides information on the user or device from which the card was shared. According to one embodiment, system cards cannot be shared, and do not display "shared from" information. Additionally, shared from 1610, does not display for card generated by a present user. In one example, shared from 1610 is responsive to computer focus (e.g. hover). Hovering over the Shared From line, 1610, causes the device to display an informational bubble with a list of people to whom the card was shared. Other options may be employed for displaying shared from information. Other options may include linking to a display list for share from information, and in some embodiments may include displaying the shared entities on the back of the card without selecting 1610, Shared From. In such embodiments a maximum number of shared entities may be displayed before requiring selection of a more control. The more control expands on the list of shared entities to provide for listings that do not fit within the space provided on the back of a card.

Shared to, 1612, provides information about whether and to whom the card has been shared. According to one embodiment, system cards can not be shared, thus no shared to information is displayed. By default shared to, 1612, does not display until a

card has been shared. According to some embodiments, the "shared to" field is responsive to focus. In one example, hovering over the shared to line causes the device to display an informational bubble with the list of people to whom the card has been shared. Other options may be employed for displaying shared to information. Other options may include linking to a display list for share to information, and in some embodiments may include displaying the shared entities on the back of the card without selecting 1612, shared to. In such embodiments a maximum number of shared entities may be displayed before requiring selection of a more control (not shown). The more control expands on the list of shared entities to provide for listings that do not fit within the space provided on the back of a card. Optionally the more control may cause the device to display an information bubble containing the remaining shared entities and/or all the shared entities.

Organization of the Home View

Typically, the home view is configurable by the user. New items may be added, existing items may be moved and/or removed based on user selection. The home view further comprises some visual representations that can not be removed. Commonly requested system operations have visual representation displayed on the home view that can not be deleted. According to one embodiment, a user may reorganize the display but not remove representations for system operations. For example, visual representations that map to system operations (e.g. a communication card and a camera card) cannot be remove from the home view. Nascent cards, for example, the Browse the web card, can not be removed from the home view. According to some embodiments, the Browse the web card is further limited in configurability, in that, the positioning of the card will not change relative to the other cards. For example, the Browse the web card will always be displayed last. In other examples, nascent cards may have other positions that do not change, first to be displayed, last displayed on first page of the home view, etc. In some embodiments, even nascent cards may be reorganized in the home view display.

The user interface may include default settings for organization. For example, a default organization for the home view comprises an arrangement roughly based on order of creation, from left to right, top to bottom. Other organization may be employed right to left, top to bottom. In one example, the user of the streamline device is located in China, and the default organization is presented from right to left.

One example default setting for the home view establishes a number of cards to display per page of the home view. In one example the default caused the computer to render twelve cards on a page. In another example, the display of the twelve cards further comprises the tops of the cards on the next page or the bottoms of the cards on the previous page, as appropriate. In one embodiment, the home view includes maximal display thresholds configured to improve the ability of the user to absorb the information presented. In some embodiments, a maximal number of visual representations per screen is set. In one example, the maximal number of visual representations is used to define a GUI page. In another example, the maximal number of visual representations is associated with a maximal number of full view visual representations, and the page is configured to include portions of views of other visual representations available on adjacent pages. A computer operation that would cause the computer device to exceed the maximal number results in the creation of a new display page. The home view is organized into as many pages are required in order to maintain the maximal threshold of display items.

It is to be appreciated the different organization options may be employed for the home view. In one alternative, frequency of use may be employed to organize the cards displayed in a home view. The most frequently accessed content may be display first with the least frequently accessed content being display last. Another option includes the use of last accessed information associated with a particular card. The most recently accessed card may be displayed first and the card with oldest use would be displayed last.

Creating New Cards

An example process 1040, FIG. 10B may be executed to generate a new card. Process 1040 is executed in response to a user clicking the Browse the Web card on the home view at step 1042. In response to the execution of the Browse the Web card, the devices displays the card sliding to the right (or down to the far left on the next row if it is already on the far right) as a new web card is created in its place at 1044. At 1046 the system renders apparent motion in the display, showing the system zooming into the new web card. At 1048, the system displays a quick access view configured to generate a mapping between the new card and web based content. According to some embodiments, newly added cards (whether created by the user or received as a shared card from another user) always appear at the bottom of the home view next to the Browse the Web card. In

other embodiments, the Browser the Web card may display a different title, for example, "New Card." It is to be appreciated that the title is not particularly relevant to the nascent card, but rather, the functionality for generating new card is.

New cards may also be created on the fly during a browsing session as part of process 1080, FIG 10C. Process 1080 begins at 1082 in response to either a user clicking an "open in new window" link on a web page, or in response to a user executing a keyboard shortcut (e.g. Shift-click) to perform the same function. Additionally links that contain computer instructions to open link in new tab will invoke the same functionality at 1082. In these cases, the system shows an animation zooming out of the current card to the home view at 1084, optional step 1086 cause the system to display movement to the last page of the home view (if not there already), at 1088 the Browse the Web card slides out of the way, revealing the new card in its place at 1090, and finally zooming into the new card, 1092. Process 1080, may be implement in association with a timer to govern the overall execution time of process 1080. In one example, the process and animations should take no more than about half a second.

According to one embodiment, selection of the Browse the Web system card causes the system to execute a process for generating a new web card. As part of the process for generating a new card, the system presents a quick access view to the user. Referring again to FIG. 5, shown is an example of a quick access view. As discussed earlier, the body 502 of the quick access view may display a frequently accessed list of content. A user may select from the displayed content to generate a mapping for the new cards, and enter the web page view for that content. Additional at 510, the quick access view presents news from, for example, the device manufacturer. At 510, news regarding operation of a streamlined device may be shared with the streamlined device user community. Advice on new features may be provided, 512. And awareness drawn to new features. Hints and suggestions may also be displayed, for example, 514, referring users to GOOGLE DOCS, and on-line word processing/office suite solution.

According to another embodiment, creation of a channel card is available for sites with rss feeds or sites for which customized visualizations are available. From the home view any web card with rss feeds or with customized visualizations can be used to generate a channel card. From a web page view, hovering over the option add channel caused the system to display a preview of the channel card. In one embodiment a

channel card includes features not observed in web or system card. For example, channel card 204, includes a display, 280, for an individual rss item received from the online source. In this case the rss item is a headline that permits direct access to an article (typically through a web card). Channel card, 204, will display a plurality of rss items one at a time through the channel card, thus the content in a channel card periodically changes, until al content items have been displayed. At that time the channel cards starts again from the beginning displaying each one of the plurality of source items.

Removing Cards

According to one embodiment, the home view may be configured by a user. A user may remove visual representations from the home view. In a card example, a user may access card option by providing focus on the card. As discussed above, card options are revealed in response to focus. Options may comprise a delete option. In one example, a delete option is display as an "X" in the upper right corner of a hover view of a card. To delete a card from the home view, a user executes the delete option by clicking on the "X." In response to removal of a card from the home the view, the remaining cards on the home view are reordered by the device. In one example, the reordering comprises shifting of the displayed cards to rearrange them into the organizational schemes discussed above. In order to ensure a close/delete selection was intended and to provide the user with the ability to change their mind, an information display bubble may be generated in response to the delete execution. The information display bubble maps to functionality that causes the device to undo the delete operation in response to selection by the user.

According to one embodiment, a dialog bubble is displayed off of the header of the home view. The dialogue bubble displays a message confirming the delete operation and further comprising a mapping to functionality provided, the causes the device to undo the delete operation in response to selection. According to another embodiment, hot-key functionality is provided that cause the device to undo that last activity performed by the device. In one example, ctrl-z, is mapped to functionality that permits the last activity to be undone.

Home View Navigation

According to one embodiment, the home view in configured to display a maximum number of visual representations. For embodiments employing cards that map to computer content and/or operations the maximal number of visual representations will

restrict the number of cards displayed per page of the home view. In one example the display number is set to twelve. In response to exceed the display number, the device executes operations designed to render a new page for the excess. In response to multiple pages, the device is configured to display indications of content (e.g. cards) on adjacent pages. In response to movement of a pointer, visual representation displayed on the screen tracking computer focus, new pages may be displayed. In one example, multiple pages are provided by the view. The display rendered by the device give a user the impression that adjacent pages appear above and below the current page view. For example, indications of adjacent card content appear at the top and bottom of the home view body. By scrolling the pointer towards the bottom of the screen the user causes the device to display the next page of the home view, further by scrolling the pointer towards the top of the screen the user causes the device to display the previous page of the home view. Additionally, according to one embodiment, arrow keys provided on the device's keyboard may be used to navigate pages of the home view. In one alternative, keyboard shortcuts mapped to navigation functionality. In one example, keys with mapped navigation functionality include shift-arrow, crtl-arrow, alt-arrow to provide further navigation options.

One may navigate away from the home view at any time by selecting a visual representation and causing the device to execute the mapping associated with the representation. In one embodiment, a user selects a card and in response the device renders a page view appropriate for the selected card (e.g. web page view for a web card). In one embodiment, an integrated scroll wheel provides navigation functionality from the home view. Scroll wheel functionality may be dependent on state of the device, and may also be dependent on configuration of the device. In one example, the device's present state is its home view and manipulation of the scroll wheel causes the device to display the channel card view. According to one embodiment, returning to the home view is streamlined for the user. This may be accomplished through navigation buttons on the keyboard, for example 168, FIG. 17. The navigation button operates as a toggle between present view and home view, returning a user to the home view when the present view is elsewhere, and returning the user to the previous view when the present view is the home view. A navigation element provided in visual representation of computer content may also provide the same functionality. For example, navigation button 250, in home view

200. In another example, a navigation button, 352, FIG. 3C is provided in a web page view.

Reorganization of visual elements in the home view may implicate navigation with the home view. In one example where the home view presents cards to a user through multiple pages, moving cards across the pages requires navigation within the home view. According to one embodiment, specialized navigation options are provide to render sufficient context for the relocation across pages. In one example, a user drags a card across pages within a home view. The device in response to the drag across pages modifies the display of the home view to show a zoomed out display of the home view. The zoomed out display is permitted to violate any associated threshold with respect to number of displayed items on a page of the home view. The zoomed out display in a view of multiple pages with each element of the pages being reduced in size to allow them to be displayed in one screen. For long lists of cards, or other visual representations, this may result in extremely small visual representations or cards. It is realized that even thought the result may be visual representations so small that they cannot be fully appreciated, the user goal is to relocate a card, and the temporary loss of interactivity to the user will not impact the user operation. Once a card is relocated, the device caused the display to "zoom" back out to conform to management and organization scheme discussed, including maximal display thresholds, for example.

Navigation away from the home view may also occur through selection of the visual representations that map to computer content and/or functionality. In one embodiment, clicking on a card will zoom into that card, revealing the page view for that card. In one example, clicking on a web card caused the device to display the web page view for that card's content. In another, clicking on a channel card may invoke different behavior. In a channel card example, the navigation behavior depends on the location within the card that is clicked.

Some channel card embodiments, display items from rss feeds one at a time, scrolling through the rss items based on a timer, and in one embodiment, based on selection of navigation tools within the card. If a user clicks on the body of the channel card for example, the device causes the channel page view to be displayed for that card. If a user clicks on an rss item displayed in the channel card, the device causes a web page view for the specific content to be displayed. In one embodiment, a channel card maps to

a content feed from the NEW YORK TIMES. Clicking on an article title in the channel cards causes the system to execute a mapping to the content by opening a new web card and zooming into the new card's web page view of the selected article. Clicking elsewhere the channel card causes the system will zoom in to the channel page view for that card.

According to one embodiment, searching from the home view causes the user interface to navigate away from the home view. For example, entering search terms into search box 254, FIG. 2, cause the device to execute a process for generating a new web card and navigating to the page view of the newly created web card. The device in creating the new web card automatically creates a mapping to web content based on default settings. In one example, the default settings provide for searching to occur through the well known search tool GOOGLE. Other search tools may be established as the default. By accessing a system card for settings, in one example, displayed as a Settings card, a user may change the default for the search tool. Further default operations are provided by the user interface. While in the home view, any typing that occurs on the keyboard (except for hot keys and keyboard shortcuts) will be default populate the search box of the home view. Pressing return or clinking on the search tool 255, will execute the process for a new card and pass the search terms to the default search tools, and the device displays the web page view of the default search tool and its response to the search terms.

Example Page Views

According to one aspect a streamlined user interface is provided, that permits a user to access electronic content on a device responsive to context and responsive to device configuration. According to one embodiment, an element of a graphical user interface that provides streamlined access includes a plurality of views of computer content. Another element of the GUI, includes visual representations of computer functionality and/or content that are associated with a mapping to at least one of the plurality of views. In one example, the visual representations comprise cards, as discussed above. The various types of cards can each be associated with one of the plurality of views, and may also be associated with multiple views. A high level view may be provided to manage and organize the (for example in a home view). The card may be associated with a lower level view which permits more direct interaction with the viewed content. In one example, a web page view permits a user to interact with displayed web

content for a web page. Other views including a channel page view, provide lower level views that permit interaction with content specific to channel cards, and system page views provide, for example, a lower level view of system functions mapped to by the system cards. System cards may be further classified into nascent cards, and different page view provided according to classification.

According to one aspect, methods and systems for streamlining user interaction with computer content and operations may include a process for providing consistent feature accessibility across a plurality of views and a plurality of visual representations of computer content. Fig. 45 illustrates one example process, 4500, for providing consistent accessibility to computer content across a plurality of views and a plurality of visual representations of computer content and/or operations. At 4502, a view of computer content is provided. The view is configured to include visual elements responsive to computer focus, however achieved. The view of computer content includes a header display further comprising a focus header display and an unfocused header display. In response to focus, the focus header display reveals additional controls associated with the computer content, 4504. At 4506, focus is removed from the focus header display and the computer system transitions the view of content to an unfocused header display, concealing the additional controls at 4506. In one embodiment, responsiveness to focus provides for user consistency in accessing a plurality of views and with respect to visual representations of computer content, and at 4508 a plurality of representations and views provide additional focus responsive displays, which are configured to include focused and unfocused presentations.

According to another aspect, methods and systems for streamlining user interaction with computer content and operations may include a process for providing consistent feature accessibility by providing a primary means for navigation to computer content and computer operations to occur through a consistent view. Fig. 46, shows an example process, 4600, for providing consistent navigation operations to a user. At 4602, a home view is presented to a computer user. The home view presents an organization of a plurality of visual representations of computer content, 4604. The visual representations form the building blocks of the home view. Each visual representation is mapped to computer content and/or operations that a user may select by, for example, hovering on the visual representation, by clicking on it, and by using hot keys - among other options. At

4606, a user executes the mapping to the computer content and/or operations. In one example, execution of the mapping causes the computer to navigate to a first view of the content. In some embodiments, process 4600, comprises further computer logic executed by a processor to access a stored mapping, and to generate the rendered presentation on the computer display of the first view.

Typically the first view comprises a navigational elements displayed in a portion of the first view. The navigational element is mapped to the home view. In one example, the home view also comprises a navigational element, and a user may toggle between the first view and the home view by executing the navigational element. In process 4600, a user executes the navigational element to return to the home view at 4608. In one alternative, a button, a sequence of keyboard keys, a hot key may also cause a computer system to execute a transition to a home view. In another alternative, the same button, sequence, of keyboard keys, and hot key may cause the computer to return to the first view upon a subsequent execution. Returning to the home view at 4608, presents the user with a consistent view of content options, and the user may select a new first visual representation mapped to other computer content at 4610. Execution of the new first visual representation caused the computer to navigate to a first view of the mapped computer content, returning process 4600, to step 4606. Again the user may select a navigational element to return the home view at 4608 to select yet another first visual representation. In some embodiments, process 4600, represents a resident process that runs in the background throughout operation of a computer device. In other examples, process 4600 may be exited by powering down the computer system (not shown). And in one alternative, a user may exit process 4600 by selecting different navigational tools that execute mappings to other views. In another alternative, (not shown) a view selector may be invoked by changing a configuration of a streamlined device. Invoking the view selector can cause the computer system to execute a transition to a different view without a return the home view. In one example, invocation of the view selector by changing the device configuration from laptop to easel, causes the computer system to transition from a home view to a channel view.

Example Web Page View

According to one embodiment, a web page view is the computer implemented expression of a selected web card. The web page view is configured to present a

consistent view of web based content to a user. The web page view comprise a number of elements that are maintained across the web page view of different content, although in some examples additional features may be provided to address unique aspects of the content being viewed. In one embodiment, the web page view includes a header, 354, FIG. 3C, a body, 356, optionally a scroll bar 358, and a navigation element, 352. It is to be appreciated that individual web page views may comprise additional elements, and should not be read as limited to elements discussed with respect to this example. The Header 354, is responsive to focus of the device. In another embodiment, the header is responsive to the type of content being displayed. In one example, the header is further responsive to the communication protocol user to access the web based content. The header portion may also be responsive to the state of the device, and state of the computer operation being performed (e.g. loading content).

Accordingly, in one embodiment the header 354 element of the display appears differently based on focus, content, and context of the web site being viewed. When the header is out of focus, for example, the header may be rendered in an out of focus display, shown by example in FIG. 18A. The header display comprises navigation element, 1802, page title 1804, optionally a visual element associated with the web page is displayed 1806, the visual element may be a favicon (reduced scale image associated with a website), and where appropriate the header displays a lock symbol 1808 to indicate a secure site. For secure sites, hovering over the security symbol 1808, caused the device to display additional information regarding the security of the site. In one example, a dialogue box appears including information on the security signature for the site.

Page title provides the user the name of the page s/he is on in human-readable form. In some embodiments, when the header is out of focus, the title of the page extends to the right as far as possible. How far the title is display is dependent on what other elements are included in the header. For example, when the header is out of focus the title has the most room in the display. Upon focus, the device causes the header display to change. In one example, FIG. 18B illustrates a header, 1850, in focus, and device now displays additional tools in the header. Additional tools may comprise a share tool, 1852 (for sharing the web card mapping to the view), bookmark tool, 1854 (adds web page to bookmark list), more tool, 1856 (permits revelation of additional tools), search tool, 1858, and close tool, 1860. Additional tools may be displayed in the header on focus, including,

for example, back and forward buttons, 1864 that may be used to access other pages in browsing history. Additionally, the title display from unfocused view, 1804, FIG. 18A, may be transformed into a web address box 1862, FIG. 18B. In one embodiment, focus on the header display 1850, causes the device to transform the title display into an address box, 1862. The address box maintains the title of the web site, until a user interacts with the address box, by for example typing into it. Once the system detects interaction with the address box, the display in the address box will indicate a url and/or uri for the current site (or whatever the user is typing). Other options may be made available through the header by display and selection of a more tool, 1856. For example, the device displays a toolbar, 1904, in response to user selection of the more tool 1902, FIG. 19. The toolbar supports operations, 1906, provided by conventional browser of other known systems. The toolbar 1904 may also be revealed in response to keyboard short-cuts, for example, crtl-f opens a search box, 1908, permitting the user to specify terms to find within the web page view. The toolbar display may be responsive to the content appearing in the web page view. For example, the device will display zoom tools instead of –text size and +text size in response to .pdf content.

Other standard operations and options may be supported in the toolbar. In one embodiment, the toolbar supports, find in page, find in page Next / Prev, for scrolling through hits within the page, save photos, - text size / + text size, to increase or decrease the size of the text (text sizing may be implemented globally so that changes in text size for one web page view will affect all web page views – alternatively the setting may be local to the present web page view), refresh, cut, paste copy, and print. Print and save behavior for a streamlined device does depart from conventional operation.

According to one embodiment, the header may also display additional tools whether the header is in focus or out of focus, responsive to the content of the page. In one embodiment, the header, 1890-1891, FIG. 18C, displays an add a channel tool, 1892, regardless of focus (1890 out of focus, 1891 in focus). In one example, the device determines that the accessed content has either a rss feed, or a custom view for the static web-page, and in response reveals the add a channel feature in the header. Selecting the add a channel causes the device to execute a process for generating a new channel card as discussed further herein.

According to another embodiment, the state of the content in the view may impact the tools displayed. For example, when a user is interacting with the address box (e.g. to enter a URL or URI) or when a page is not fully loaded, possible actions are limited. The device causes the header display to adjust to remove options that are unavailable (e.g. namely Share, Add channel, Bookmarks, and More), and adds the following elements Go/Stop tool 1895, FIG. 18D, and a status indicator 1896. Selecting Go causes the device to initiate navigation and start loading a URL or URI listed in the address box. The stop button appears while a page is loading - clicking the button will stop the page from loading. The Go/Stop tool toggles between a presentation of Go when a page ahs not yet been loaded and Stop when a content is being accessed, for example. The status indicator may include a customized visualization. The customized visualization may be configured to tie various functions and features together. In one example, the status indicator is configured to display as a "loading spring," 1896. 1896, is animated to show that the device is actively downloading content. It is to be appreciated that although the Go/Stop tool is display in the same space on the header in the described example, the display for either function may also be rendered separately, or display above and below, among other options.

The header display may be further responsive to focus and selection. In FIG. 18E, shown is a header after selection of the search tool 1858. In response to selection of the search tool, the device alters the heading display to include an search box 1898, for entry of search terms. Once the search is initiated the device alters the header to eliminate search box 1898.

Navigation within Web Page View

According to one aspect, navigating web pages within the web page view is similar to existing browsers on other systems. For most links, when a user clicks the link, the device executes a process to load a new web page into the body of the current web page view, replacing the contents of the current page. The device operates different in response to links that request a new window. For new window links or new tab links the device executes a process to generate a new web card, and further the new card is mapped to the link destination. The device executes functionality that causes the display to "zoom" into the new card and present the content from the link destination.

According to one aspect, transitions between active web page views occurs through the home view. The user selects a navigation element (e.g. 352 FIG. 3C) to return to the home view, alternatively, a navigation button (e.g. 168, FIG. 17) will return the user to the home view. In another embodiment, hot keys and/or shortcut keys may be employed to cause the system to return to a home view. In response to selection of the shortcut and/or hot keys, the device executes a transition to the home view. From the home view a user may select any other card or generate new cards, as discussed above.

Creation of channel cards occurs differently from a web page view, than when done in a home view. In one embodiment, in response to selection of add channel in a web page view, the system returns to the home view, displays the creation of the new card, and presents the creation of the new card so that both the new card and the web card from which add channel was selected is displayed. In this example process any maximal display threshold may be ignored in order to display both the originating card and the new channel card. Once the card generation is complete the system zooms back into the original web page view for continued browsing. Alternatively, a system may enter a channel view of the newly created channel creation. In one embodiment, the behavior of the system may be altered according to settings accessed through a system card, and in one example a settings card.

Channel Page View

According to one embodiment, the channel page view is the zoomed-in computer implemented expression of a channel card. A channel page view presents a unique view into content made available through a website. The channel page view employs visualizations similar to corresponding visualization on channel cards but the large format of the view allows for a better display of content, and provides for increased interaction with users. The channel page view also comprises a mapping from the display content to the source from which the content is derived. Typically, content displayed in the channel page view is derived from an rss feed associated with a web-site. Additionally, some non-rss sites have customized visualizations that can be accessed through a channel page view.

According to one embodiment, the channel page view configured to present a consistent framework for user interaction with rss style content. The channel page view comprises a number of elements that are maintained across the channel page views of different content, although in some examples additional features may be provided to

address unique aspects of the content being viewed. An example channel page view is illustrated in FIG. 20A, 2000. The channel page view shown includes a header 2002, which includes a display for the title of the channel page view, 2006, a share tool, 2006, web link 2008, and status indicator 2010. The header may also include navigation element 2012 for returning to a home view among other functionality. The channel page view also includes a body 2014, for displaying available rss items 2016-2022. Selection of the displayed rss items 2016-2022, caused the system to display the web page view of the selected article, web link 2008, shown as "go to web page" in FIG. 20, creates a new web card for the page from which the channel was created.

Other channel page views may also be employed. FIG. 20B, illustrates another example of a channel page view, 2050. Shown in 2050 is a specialized channel view for a news channel. Example view 2050 is separated into two scrollable columns, providing a headline column 2052, for displaying individual rss items and a content column. Content column, 2054, presents the details of rss items (if the content does not require additional space other than the displayed screen a scroll bard will not be displayed). The content column shows the headline, 2056, includes the time the item was posted 2058 (in one example relative to current time), the author, 2060, and the item's description, 2061, in its entirety. According to one embodiment, images and/or script (html, xml, etc.) may also be displayed in the content column (not shown). The content column may also comprise a navigation element, 2062. In one example the navigation element is labeled "full story." The system launches the item's url as a new web card, and transitions to a web page view of that url in response to selection of 2062. Optionally, focus and/or hovering over the full story button causes the system to generate a preview view of the new card that would be created in response to selection of full story.

Selection of one of the content items, e.g. 2070-2076, causes the system to display the headline, author, posting time, and full description for the selected rss item. Scroll bar, 2080, is displayed if the number of items in the headline column, 2052, require additional pages of display. A scroll bar may be display in the content column as well, if the content display requires additional pages. According to one embodiment, channel page views are configured to retain current state. The system accesses retained state when revisiting a channel view. According to one embodiment, a process for accessing a channel page view determines if any state information is retained for the channel page view. In response to a

determination that state information exists, the system presents the last accessed content item in the content column. If the last content item is no longer available, the system selects the first content item by default.

An alternative view of channel content comprises a full screen view of rss items. In one example a channel full view comprises a headline display center in the screen. According to another embodiment, preview text is displayed in conjunction with the rss item. In one example, the channel full view includes displays configured to identify the source of the rss feed. In another example, a logo for the source feed is captured and displayed as part of the channel full view. In response to selection within the channel full view, the system displays a content menu permitting selection of any of the rss items for the content source. In one embodiment, the content menu appears as a list of rss items displayed at the lower portion of the channel full view. The content menu is configured to be responsive to manipulation of the embedded scroll wheel. Manipulation of the scroll wheel progress through the displayed content menu, and in response the system displays the selected content in the full view with preview text appearing below. Shown in FIG. 21 is an example of a channel full view 2100, with content menu 2102 activated by selection. Manipulation of the scroll wheel causes the system to scroll through the items in the content menu. In one embodiment, the content menu transitions between selections by rendering the apparent movement of the entire content menu either to the left of the right depending upon the orientation of the manipulation of the scroll wheel. Alternatively, the content menu is also responsive to arrow keys on the keyboard. Depressing an arrow key cause the system to display the apparent movement of the content menu to the next item.

According to some embodiments, the various channel views, for example, page and full view may also include animations of transitions between available rss feed items. Default operation of the streamlined computer system and streamlined user interfaces cause the system to display transitions from one rss item to the next in association with a time period. Transitions may include animations that cause the system to display new rss items sliding into position as the previous rss item slides out of view. In one example, an rss headline item slides out of view in response to the next headline item sliding into view. The device and user interfaces may also be responsive to manipulation of the scroll wheel. For example, manipulation of the scroll may by default invoke a transition to a channel card view.

System Page View

According to one embodiment, the system page view is the zoomed-in computer implemented expression of a system card. The system cards provide a user with the ability to interact with the device's settings and other computer operations. System cards also enable a user to access customized functionality, for example, photo and video interactions. According to one aspect, certain interactions with computer content are identified as special. The identification of special interactions is reflected in render those operations as system cards. System cards have the property, that they cannot be removed by a user. This insures that identified functionality remains available regarding of user intention. Additionally, the number of system cards can be limited, providing a distinctive interface element for system operation and important interactions even within the streamlined GUI. In one embodiment, system cards are limited to a photo and video card (controlling photo and video operations), a settings card (permitting access to device settings), a bookmark card (discussed herein), a camera card (permitting set and interaction with a camera), and a browse the web card (discussed herein). Although it is to be appreciated that other system card may be implemented and the invention is not limited to the system cards provide as example above.

The anatomy of the system card is similar to the anatomy of other cards. For example, an embodiment of the system card includes a header, 2202, FIG. 22, a navigation element, 2204, a title 2206, and a body 2208. As discussed herein, nascent cards may be categorized as a type of system card. Alternatively, nascent cards may comprise their own category. While nascent cards share a similar format as the other cards, nascent cards do not have a page view. Nascent cards map directly to system functionality, that is executed upon selection or as part of a call from another process.

Channel Card View

According to one aspect, a channel card view is provided to display high level navigation options to a user, to enable streamlines selection of content and operations by making selections within a streamlines view. Similar to the home view the channel card view is configured to render a consistent organization of navigational elements of a streamlined graphical user interface. Unlike the home view, the channel card view is not based on pages of display, rather the channel card view is organized to display only one type of content, that is content that may be rendered in a channel (i.e. having an rss feed or

customized visualization, and for special system cards). The channel card view is available in both laptop and easel modes of the streamlined device. In response to configuration of the device into easel mode, the channel card view is rendered by default. The content displayed in the channel card view is dependent on the channel cards displayed in the home view. Alternatively the channel card view may be invoked by operating the scroll wheel embedded in the device.

In response to operation of the scroll wheel, the system displays the channel card view, FIG. 23, illustrates an example of a channel card view, 2300. According to one embodiment, the channel card view comprises selector display 2302. In another embodiment, the channel card view includes a selector display, 2302. The selector view is invoke upon the first click of the scroll wheel while in easel mode, in laptop mode, additional clicks may be required to invoke the channel card view and selector. In one example, the three clicks are necessary to invoke the channel card view while the device is in a laptop mode. In another example two clicks are required. Upon invocation the channel card view comprises a visualization of the channel cards available for selection. In one example, the visualization resembles and behaves like a rolodex. As the user moves the scroll wheel individual channels 2304-2310 appear to flip around the hinge of the device. In response to selection, the foremost channel card displayed is selected and displayed full screen. In one example, selection includes activation of button 168, FIG. 17, from the easel mode of the device, although in laptop mode selection can occur in a number of ways including by operation of button 168. In another example, a different button may be selected or short cut keys selection, among other options.

In response to selection from the channel selector view, the system displays a channel page view. On example of a channel page view for photo content is shown in FIG. 24. According to one embodiment, the channel page view of the photo content automatically scans though each photo by default in the channel page view. The photo display restarts again at the begin when the end of the photo content is reached. In another embodiment, the default operation is to display only the selected content item (e.g. photo). FIG. 25A, illustrates an example logical diagram of the behavior for the channel view. From channel page view 2502, selection of the menu button (e.g. FIG. 4, 166), caused the device to display the content menu, 2504, over the present channel page view. Selection of the menu button from the content menu, causes the device to display the selected

content item in a channel page view 2502. From channel page view 2502, operation of the scroll wheel (e.g. FIG. 4, 132), causes the device to display channel selector view 2506.

According to one embodiment, photo content displayed as a channel in the user interface, can be accessed similarly. Shown is an example of channel functionality, in logical diagram 2550, FIG. 25B. From channel page view 2552, of the photo channel, selection of the menu button (e.g. FIG. 4, 166), causes the device to display the content menu, 2554, over the present channel page view. Selection of the menu button from the content menu, causes the device to display the selected content item in a channel page view 2552. From channel page view 2552, operation of the scroll wheel (e.g. FIG. 4, 132), causes the device to display channel selector view 2556.

According to one embodiment, channels for displaying video content and/or audio content operate with a different logical flow. In one example, additional interactivity is required to allow a user to, for example, stop a video, start a video from the middle, among other options. According to one embodiment, the streamlined device must be able to accommodate routine operations through manipulation of only a scroll wheel and a mouse, for example when the device is in an easel mode. It is to be appreciated that in other configurations the logical flow for the behavior of the channel view may be different, and may take advantage of addition input/output devices available in other device modes. Shown in FIG. 28, is an example of a logical flow for device/UI functionality, during the normal operation of a channel view of video content. At 2802 shown is a channel page view of video content, select of button (e.g. FIG. 4, 132), causes the device to display contextual menu 2804. Contextual menu, includes a visual representation of selectable options, 2806. The selectable options rendered include at least a rewind/fast forward selector, resume selection, other episodes. Selection of rewind/fast forward selector invokes a timeline controller 2809 shown in the content page view, 2808. The time line controller is responsive to rotation of the scroll wheel, providing fast forward in one direction and rewind in the other. From 2808, selection of button 132 causes the device to return the view to channel page view 2802. Selection of resume form 2804, also causes the device to return the view to channel page view 2802. Selection of other episodes from 2804 causes the device to invoke content menu 2810, which provides a selector view of available content for the channel. Selection of content, 2811, from the selector view causes the system to play the selected content in channel page view 2802. From channel

page view 2802, the devices displays channel selector 2812, in response to operation of the scroll wheel. The logical flow illustrated may be used for interactions with audio content as well, for example, to control playing of .mp3 or other audio file.

Selecting Device Configurations

According to one aspect, systems and method for streamlining user interaction with electronic content include a plurality of physical configurations for a streamlined device, the streamlined device may be, for example, a portable computer. As discussed above the plurality of configurations may represent modes of operation of the device, and include for example laptop mode, easel mode, among others. According to another aspect the user interface that governs interactions between the user the device and accessed content is responsive the selected mode and/or configuration of the streamlined device.

According to one embodiment, the streamlined device retains information on device configuration and/or mode. In on example, information is maintained as a state variable in a systems register. In another example, the system may obtain state from signals provide by an embedded sensor, as discussed above. The state information may be used to generate a system response, when the device detects a change in configuration and/or mode.

In a typical setting a user interacts with a streamlined device in one of two viewing modes. The two viewing modes reflect a level of interactivity with the device being viewed. A lean forward view encompasses interactions between a user and conventional computer systems. One example includes a user typing at the keyboard of their laptop computer, in essence, the user leans into the computer device and display to perform interactions and view content. Similarly a user's interaction with desktop computers are conducted through a forward mode of interaction. It is realized that traditional computer devices and systems are notorious bad at permitting interaction with content and the device from greater distances.

Interactions with content and other device for example a television are included in the second type of viewing mode. A lean back mode of viewing is meant to encompass ordinary television viewing, and the interactions a viewer has with their DVR for example. Television and their associated devices and configured to provide for lean back styled interactions. It is realized that conventional system and methods fail to provide for the transition from lean forward to lean back interactions. As discussed above, streamlined

devices can accommodate a plurality of configurations, and individual configurations may be designed to accommodate the different viewing modes. Additionally, the streamlines user interface is configured to be responsive to the configurations. For example, transitions from a laptop mode of the device may trigger changes in the user interface. According to one embodiment, a transition from laptop mode to easel mode, causes the device to transition from either a home view or web page view to a channel selector view. The transition from laptop to easel, may also trigger a transition from a channel page view to channel selector view. In one alternative, the transition causes the device to display a channel full view for that channel card. The transition from easel to laptop may also cause the device to alter the view displayed to a user. In one example, if a new card has been shared, the device causes the home view to be displayed. The last page of the home view is displayed where the new card is rendered.

According to another embodiment, methods and systems for streamlining user interactions may include a process for transitioning between different user viewing positions. Shown in Fig. 48, is an example process 4800, for permitting a user to select a viewing mode for a streamlined device, and in response displaying a user interface view configured for the selected viewing mode. At 4802, a streamline computer system presents computer content using visual representation optimized for different viewing modes. In particular, ones of the visual representations are configured to display in a "lean forward" user viewing mode and a "lean backward" viewing mode. In one example, a lean forward user viewing mode includes a user typing at a keyboard of a laptop computer. In another example, a lean backward user viewing mode includes a user viewing a television from a distance. One should appreciate that the examples provided are illustrative and are not intended to be limiting. A streamlined device permits a user to select a device configuration most suited to a particular user viewing mode. For example, a user may rotate a streamlined device's display relative to its based about an longitudinal axis, transitioning the device from a laptop mode to an easel mode. According to one embodiment, the easel mode of the device permits improved "lean back" interactions with computer content. In other words, the easel mode makes it easier to view the streamlined device's display from distances greater than conventionally used with laptop computers. Selection of a lean backward user viewing mode at 4804, triggers the streamlined device to transition to a content display that improves user interaction. On one example, in

response to the user selection at 4804, the computer system display transitions to a channel viewing mode at 4806. The channel viewing mode is configured to present computer content, in large footprint displays, and further is designed to streamline user interaction with the streamlined device by permitting access through a first I/O profile associated with the streamlined device in easel mode. The first I/O profile in easel mode may consist of a scroll wheel and a selector button. In some embodiments, the first I/O profile may include a volume control.

Other processes may be invoked to cause a user interface to transition between views in response to changes in device configuration. Shown in Fig. 49A, is an example process 4900, for transitioning between a lean forward view to a lean backward view. At 4902, a user changes the streamlined device configuration from laptop to easel mode. In response the computer system switches view from its current view to a channel view. In some examples, the computer system is already in a channel view, and no transition is implemented. The easel mode of the streamlined device is associated with a first I/O profile including an integrated scroll wheel and a selector button. Upon manipulation of the scroll wheel, a view selector causes the computer system to display a progression through a sequence of channel cards as the scroll wheel is rotated, at 4906. Optionally the sequence may include other customized cards (in one example a photo and video card). Upon selection of a displayed channel card, a channel full view is invoked at 4908. The channel full view displays the content of the selected channel card in the entirety of the computer system display screen. The system returns to the channel view in response to further rotation of the scroll wheel.

Shown in Fig. 49B, is another example process, 4950, for transitioning between user views. At 4952, a user changes a device configuration from an easel mode to a laptop mode. In response to the change in mode, the device displays a home view of available content, at 4954. In some examples, the system may already be in a home view and no transition occurs. The user may interact with the streamlined device through a second I/O profile at 4956. In some embodiments, the second I/O profile includes a keyboard, a touch pad, buttons, web cam, and a scroll wheel.

Streamlined Device Community

According to one aspect, a common experience may be created for multiple users, fostering a community experience. According to another aspect, the common experience

may also include a community aspect. The community aspect includes sharing of content between users, sharing of content and configurations, sharing of content, configurations, and customizations, among many other options. In particular, sharing may involve the transmission of user interface elements to other users. The visual representations that map to content and/or computer operations on one device may be transmitted to another device or another user. In one example, a user may share a card and any of its configurations with another user. Access to the shared user interface elements, in some embodiments, facilitates communal computer usage. In one example, a first user may be watching media on their streamlined device, another user known to the first user, may receive a user interface element that retains information related to the accessed content and information related to the present context. That is for the first user watching a movie, the first user may share the user interface element (e.g. a channel card mapped to video content) through which s/he is accessing the move, and permit the another user not only to watch the movie, but to take up the movie at the same point in time, so in essence, they get to enjoy the movie together. Content and context retention by user interface elements that can be shared provides unique advantages to the users of the streamlined devices.

In some embodiments, the community aspect incorporates formation of groups. In one example, groups are formed based on at least one of a social relationship, familial relations, work relationship, etc. Different groups may share different content and even different context for the same content through for example, shared user interface elements. Groups may be further organized into nodes or a node may comprise the group. In some examples, a family forms a node regardless of the family's location relative to each other. As part of the configurations that may also occur as part of the device's purchase, at least one of the users identifies his/her family members. The family members are configured into a node. The node may be used to permit sharing of content. The node may be used to permit sharing of cards. Further updates to configurations on device in the node may be propagated automatically to other devices in the node.

Communication between groups members may take place over the internet. In one embodiment, a sub-network utilizes the internet or other communication network to communicate between streamlined device users. In another embodiment, a service is hosted for streamlined device users to facilitate communication. The service may also be connected to the internet and in one example functions as a gateway between users, their

devices, content, sharing, and communicating. The service facilitates real time sharing, in one example a user may share a movie s/he is viewing with another. Not only may the user share the information that s/he is watching a movie, but the user may allow another to watch the movie starting at the same place, allowing the users to perceive they are watching the movie together.

FIG. 29A, illustrates an example interaction between a user, the device, and the user interface, where the device causes a web card to be shared to other users. Shown is web page view, 2900, in response to user selection of share 2902, the device displays a share interface 2904. The device accesses the user profile to determine any groups or nodes that the user has created. In example view, 2900, the user has only one group, family members 2906. Each entry listed in family members represents another streamlined device/user. Box 2908 permits sharing of the card with other users of conventional systems. Comment may be included. For example, a user may type any comment on the card being share into box 2910. Comments entered on a shared card are display with the card on receipt by another streamlined device user. The user selects any one or more of the listed members 2914-2920, or the user selects 2912 to share the card with all the listed members. Once the selections have been made and any comments entered the user selects 2924 Share! And the card is transmitted. By selecting Never Mind 2924, the device closes the share interface. In FIG. 29B, shown is an example of a web page view after a share operation has been completed. At 2950, the device notifies the user that the selected item has been shared. For other streamlined device users share content is received by their streamlined device as a web card. For other users, an e-mail with a link to the content is delivered. It is to be appreciated that FIG. 29A, illustrates a user with one group or node. In other embodiments, a user may be permitted to generate a plurality of groups or nodes. Box 2926 may first display a list of groups, that a user may select from, in order to show the members of the selected groups. In one embodiment, box 2926 lists more members that can be accommodated in the space provide by the interface. An optional scroll bar may be displayed into to permitting display of additional group members.

FIG. 30 illustrates an example of a received shared card, 3000. The state of the streamlined device may impact behavior of the device in response to receipt of a shared card. In screensaver mode, a streamlined device presents received shared cards as part of

the screen saver view, 3000. Comments included with the shared card, are presented in an overlay box 3002, and any text that does not display is a first screen is scrolled into view 3004, while the content of the shared card is displayed. The overlay box 3002, may include an image of the user who shared the card and/or content, at 3006. Shared display 3000, may also include an indicator regarding the number of content items in the shared card. For example at 3008, the number of content items in the photo set being displayed indicates 1 of 4. Other information associated with individual content items may also be displayed at 3010. In the screen saver mode, the shared content items are each display, a timer controls the length of time each item is display before continuing on to the next item. The device then returns to any screen saver content that was being displayed when the shared card came in.

For users receiving shared content while in an active view (e.g. non-screensaver views), the system may provide a notification message to indicate shared content. From the home view, for example, the system generates notification message to display in a message bubble. An visual indicator is employed to notify the user that a system message is present. In one example, the navigation item displayed in the home view (e.g. FIG. 2, 250), is animated to indicate a message. An example notification is illustrated in FIG. 31. Navigation element 3102 may be animated, the device displays message bubble 3104 upon focus resolving on element 3102. The user may select 3106 or 3108. Upon selection the device displays the shared card of 3106, or the device returns to the home view 3108.

Similar notifications may be employed in conjunction with other views. Further similar notifications may be used for other contexts. In response to displaying a web page view of a web page with stored user name information, a device may present a notification message regarding the availability of account information. FIG. 32 illustrates an example message for a site with two stored accounts. By default the system displays the content without using the stored account information. The device causes the message to disappear if a selection is not made, or if browsing activity continues without selection of an account. According to some embodiment, notifications can either require a response/action or the notification may disappear if no action is taken. Typically, notifications that do not require an action are used to convey information.

In one embodiment, from channel view in laptop mode, the notification of the arrival of new cards is the same as in home or page view. Typically navigation element

3302, FIG. 33, does not appear in the channel view. In response to a new card, the device displays 3302 and may animate its display. In response to focus on the 3302, a notification bubble 3304 appears. The system displays the home view for the page containing the first new card in response to selection of 3302 or 3306.

When a notification is available in channel view, moving the scroll wheel invokes the Channel Selector view, but the system displays the first new card default (instead of the current channel). When in channel view in easel mode, the notification of the arrival of new cards is similar as above, except that both the navigation element and the notification bubble may appear at once. Shown in FIG. 34, is an example of a notification message from a channel view while in easel mode. The system displays both 3302 navigation element and 3404 message bubble together in response to shared content.

In one embodiment of a streamlined device, the user interface is configured to provide for passive viewing of selected content through a screensaver mode. The device enters screensaver mode in response to the expiration of a idle timer expiring. Any interaction with the device causes the device to exit screensaver mode. In screensaver mode, channel cards and content are display in order. An idle time out period may be established to force a transition to a new channel in the event the idle time out period is exceeded before all the content of the channel is displayed.

According to some embodiments, the community experience is enhanced through particular features and functions facilitated by the device, the user interface layer, and/or configurations designed to facilitate interaction among users (either with the device features themselves or also with third party services). According to another aspect, community experience and/or community learning furthers adoption and/or integration of new computer features into a particular user's routine. It is realized that facilitation of communication and/or content sharing across users improves introduction of features and increases the likelihood of their adoption. Context and content sharing are provided for and through streamlined interfaces. The sharing opportunities may be device sensitive, that is, a user with a same/similar device can be identified by a specific user. The users with identical devices may have the most options for how to share, what content to share, context settings, and may also include the ability to share features associated with the content. In one embodiment, a user may enable features associated with a card based interface and through sharing the card make another user aware of features of the card

interface that the receiving user was unaware of. In another embodiment, the shared card provides all of the configurations established for the originating card. In one alternative, security features may be invoke to clear certain settings of a card to insure that for example, banking information is not shared to another user. In another alternative, the user selecting share is prompted to confirm the share request. In response to a security identifier, the prompt to confirm includes a warning banner regarding the identified security issue. In one example, a user receives a warning that sharing a card including banking content may compromise the bank accounts referenced. In another embodiment, a share request with an identified security issue is denied.

In some embodiments, the community aspect incorporates formation of groups. In one example, groups are formed based on social relationship, familial relations, work relationship, etc. Different groups may share different content and even different context for the same content through for example, shared user interface elements. Groups may be further organized into nodes or a node may comprise the group. In some examples, a family forms a node regardless of the family's location relative to each other. As part of the configurations that may also occur as part of the device's purchase, at least one of the users identifies his/her family members. The family members are configured into a node. The node may be used to permit sharing of content. The node may be used to permit sharing of cards. Further updates to configurations on device in the node may be propagated automatically to other devices in the node.

According to another embodiment, sharing options may also be adapted to different devices being operated by sharing users. For example, certain features may be disabled when a card or content is shared outside of a streamlined device community. In some embodiments, communities may be based on the device being employed, membership in a group, and/or membership in a node. Additionally communities may be based on social interactions, familial relationships, etc. Examples of communities include name lists of user identified by the device operator. In one example, community lists and/or community groups are pre-generated in response to questions asked of a potential purchaser. User names may also be added and maintained by the user. Additionally, the system may create community lists on behalf of a user based on the user's activity.

For example, when composing and sending an e-mail, the system may query the user to determine if the recipient should be within the user's community. In one

alternative, the system may add the recipient to a potential community and make the addition subject to a later confirmation. In another option, the e-mail recipient is added by default to a group with minimal sharing options. The user is provided the option of changing the group associated with the recipient. Additions to community list may require additional configurations to become effective. For example, the device user may be required to accept additions, a device user may be required to identify if the added name corresponds to another user of a similar/same type of device, among other configurations options.

Specialized Operations

According to another aspect, certain features of convention computer interactions have been specially configured to present streamlined interaction between a device, a user, and content. In one embodiment, the device does not incorporate mass storage (i.e. a hard drives), instead the system is configured to employ RAM and Flash memory storage. The capacity of the flash memory is significantly less than traditional mass storage options. Thus in some embodiments, traditional features such a download, have been configured to operate differently for a streamlined device.

In one example, download links do not cause a streamlined device to download content. Instead, a download link is interpreted by the device, which initiates a process for handling download links. An example process includes accessing a third party provider of remote storage to retain the content identified in the download link. According to one embodiment, the purchase of a streamlined device, include creation of an account with access to on-line storage. In one example, remote storage for a device is provided in conjunction with user information stored to customize the device and configure its operation to the particular user.

In one embodiment, customized configuration files supply information required for integration for known third party providers. In some embodiments, customized configuration files are used to establish default interactions with for example, Shutterfly, an on-line third party photo management and sharing service. In other examples, customized configuration files are used with other third party on-line service providers. Other third party provides include GMAIL, HOTMAIL, YAHOO! MAIL to provide examples of e-mail service providers. Other provides include, for example, on line banking providers, financial system providers, university systems, web site development

providers, dating services, and social networking sites. One should appreciate that the integration of an on-line service need not depend on a predetermined configuration file or settings, rather, various embodiments of the systems and methods are adapted to learn from user interaction and develop appropriate configurations. Certain embodiments are further configured to take advantage of configurations developed by other users of such systems and methods, permitting sharing of content, sharing of configurations, etc. According to one aspect, by using input from the users, learning from user interactions, permitting content sharing, permitting sharing of configurations, and by providing default configurations for more popular services almost any on-line service can be integrated.

Still other embodiments, may query the user upon entry/access into a new service for any information necessary to configure the device to provide streamlined presentation and integration of the third party service. In some embodiments, the process of streamlining user interactions with electronic content includes querying the user regarding subscribed services and/or functions the user would like to use on their computer. For example, during processing of a purchase of a streamlined device a prospective purchaser receives a query form, or the user may receive individual questions regarding the purchaser's present computer use. In one example, the questions will generate a profile of subscribed services, whether pay or free, and customize the user interface to permit streamlined interaction with those services out of the box. In one example, default configurations and/or questions designed to elicit required configurations, allow the user to interact with GUI elements customized to his/her current use and preferences.

A process for handling download links may be responsive to the particular content selected for download. In one example, the system analyzes the selected download link to determine the type of content selected for downloading. In response, the system identifies accounts held by the user for processing the selected content. If multiple accounts exists that handle the selected content, the account first created is used by default. A user may alter default operation through use of system settings. For photo content, as one example, the system identifies the content as a picture (.jpg, .gif, .tif, etc.). The user's profile contains information for accessing FLICKR, a third party provider of photo access and management services. The download link is interpreted into an operation to transfer the file into the user's FLICKR gallery. Other services may be used to host the content, for example, the download link may be interpreted to cause the system to upload the photo to

the well known MYSPACE or FACEBOOK services. For content that cannot be identified, the streamlined device causes the download request to be interpreted as a delivery request to a generic remote storage service. The remote storage service may be one provided through a third party provider, or may be the remote storage space provided by a seller of the streamlined device.

An example process, 4200, is shown in Fig. 42 for streamlining user interactions with digital content. The user interaction with digital content is streamlined by enhancing features for simplifying user decisions by providing access information associated with multiple user accounts for a particular online source. Multiple account profiles can be retained and presented to a user of a streamlined device. Example process 4200 begins at step 4202, permitting a user to access electronic content through the streamlined device. At 4204 the source of the electronic content is determined and matched against available access information. Access information may be stored in a device profile or in another example in a user profile. These profiles may be loaded at startup of the device or may be accessed in real time when a content source is determined. At 4204(NO) no access information is available for the content source, and the electronic content is display at 4206. Example electronic content includes web pages and other online resources. At 4204(YES) the content source is matched against available access information. At 4208, access information is displayed to a user in a user interface. The access information typically identifies a user account available to access the content source. In one example, for an e-mail service this will include the e-mail address displayed in the interface. A plurality of access accounts may be available for a given service. The streamlined device is configured to handle multiple users with multiple account to any given services. The user interface permits the user to identify which access account is desired. At 4210(NO) the user does not identify an access account, and at 4212 a default access account is used. The default access account does not provide any account information, and the content source page is display, at 4216, not including any sign-on information. At 4210(YES) a user selects an access account and at 4214 the access information is passed to the content source, and the displayed content at 4216 will return content after the sign-on process has been completed.

In another embodiment, a process for handling download operations is provided. The process includes causing the device to display a download interface, for example

interface, 3500, FIG. 35. The interface presents the user with options for processing the download request. Box 3502, lists members of the user's group to whom the user may send the file. Box 3504, permits a user to enter e-mail addresses to send the file as an attachment or as a link if a size threshold is exceeded. For a user who has configured third party service capable of handling the file content, Box, 3506, displays the configured providers (e.g. Shutterfly 3508, Flickr 3510, DropBox, 3512). Each configured service displays with the account name configured for the service, for example at 3514.

In one example, process, for interpreting download operations also includes displaying the interface in response to computer focus on the download link. In another example, hovering over the link causes the system to display a download interface. For files sent by e-mail the system may be configured with a maximal file size for particular e-mail services. Typically files sizes of less than 5MB are not filtered, thus is the e-mail domain address is not recognized, a default threshold of 5MB may be used. For services with known size constraints the system will transmit the file to the e-mail address. If the constraint is exceed, the system transmits a link to the file instead of the actual file.

Another to another embodiment, selection of print operations may be handled in a similar fashion as to downloads. When a printing device is attached to a streamlined device, printing proceed as known conventionally. When a printer is not attached, a process for interpreting print operations may be invoked. The process for interpreting print operations, includes causing the device to display a print interface 4102, FIG. 41A. The print interface provides box 4104 listing group members, 4106 listing configured services, and box 4108, for entering destination e-mail addresses. Selection of 4110 sends the item in a print format, in this example a .pdf file. In other examples, different file formats will be displayed as part of 4110 (e.g. word, doc, txt, wpd, xls, etc.). in some embodiments, file size limitations will be employed on delivery of print format files. FIG. 41B illustrates in greater detail examples of print 4150 and download interfaces 4152. Print and download operations may invoke a progress bar displayed over the current view, with the option of canceling transmission.

In another embodiment, a streamlined system includes the following features:

- Employs remote mechanisms to access and/or deliver files
- Mechanisms include indentifying a remote action in response to file type
- Web Content Support for system that does not utilize local memory for storage

- In response to download selection (i.e. request to locally store content) display message regarding new functionality (transfer or remote store)
- Maintain user profile – associate web service providers for a particular user
- web services – remote storage, email, photo sharing, custom web page info, storage accts (e.g. Drop Box and Google Docs)
- In response to mouse over/selection/hover/indication of selection display interface to enable remote delivery of content/file
- Providing for selection of remote delivery to a domain (including home network) including an act of verifying the content/file's size does not exceed a threshold value
- In response to passing site check deliver content/file as attachment
- In response to fail, store in provided remote storage, generate link, and deliver link to content/file

According to one embodiment, a method for streamlining user interaction with electronic content includes a process for interpreting online executable operations into streamlined operations. One example process, 3600, FIG. 36, for interpreting online executable operations into streamlined operations includes the step of permitting a user to access digital content online, at 3602. The online digital content is presented to a user through a graphical user interface at 3604. The GUI permits a user to select executable operations in the presentation of the online digital content, at 3606. In response to selection of the executable operation, the computer system determines if the executable operation requires local access. In one example, the executable operation includes a download operation that would cause a conventional computer system to store a file on a local mass storage device such as a hard drive. In response to the determination that the executable operation requires local storage, a streamlined computer device transforms the executable operation's local access request into a remote access operation, at 3608.

In one example, the remote access operation includes a storage request to a online service provider. Various online service providers permits remote storage of various computer files. Certain service providers optimize the provided service for specific file types, such photo management and sharing services. Other examples include e-mail access providers, video and audio media management and presentation services. In other examples, a service provider may offer generic data storage not specific to any file type.

In one embodiment, step 3608 includes transforming a download request to a local mass storage device into a storage request to a remote service. The example process can include acts of identifying the file type associated with the download request, and selecting a service provider based on the identified file type.

In another example, the executable operation that requests local access to storage on the streamlined device may include a print operation, a save operation, a copy operation, a paste operation. Typically the streamlined device is configured to transform save, download, and print operations into remote storage operations. According to one embodiment, a print operation may be streamlined to permit the print operation without an attached printer. According to one embodiment, in the absence of an attached printer, a print request generates a print file in response to execution. Conventionally the print file would be stored locally on a computer hard drive. In some embodiments, a streamlined device does not employ local mass storage devices such as hard drives. Such streamlined devices are configured to transform local storage request into remote storage operations. In one example the print file may be directed to a generic storage provider, and the file stored in the remote memory associated with the generic storage provider. In another embodiment, the system checks the resulting file size for the print file. If the size of the file exceeds a threshold, then the system may further streamline the operation. For example, by providing a link to the file and transmitting the link to a destination. A link may be transmitted through an e-mail instead of transmitting the file itself, for example.

Another example process may be used in conjunction with 3600. In one example, a sub-process, 3700, FIG. 37, for permitting selection of executable operations in online content can be employed. At 3702, computer focus is resolved on an executable operation embedded in online content. Executable operations can include download, print, save, transfer, retrieve, get, fget, and generally comprise operations that require a large memory block of nonvolatile storage, and in particular hard drive space. A streamlined computer device includes logic stored in memory and executed by a processor to analyze a focused executable operation, and at 3704, the executable operation is analyzed. The logic may include programming to trap download request for example. Once a request is trapped the streamlined device can determine what action is appropriate based on the type of request. At 3706, it is determined whether the executable operation requires local storage. At 3706(No) local storage is not required and the executable operation is performed at 3708.

At 3706(Yes) it is determined that local storage is required and the operation is transformed into a remote access operation at 3710.

Example process 3600 may include additional sub-processes and/or individual steps performed in process 3600 may also comprise other processes. In one example sub-process 3800, FIG. 38, for transforming online executable operations associated with local storage into remote storage operations may be employed as part of a larger process, for example, process 3600. At 3802, a streamlined computer system identifies a result of an executable operation identified in a web browser displayed on the system. At 3804, a file type associated with the operation is identified. At 3806, at least one of a device profile and a user profile is accessed, to retrieve available services, 3808, that may be appropriate for the particular file type. Various services for a particular user may be associated with the device itself, and a plurality of users may have access to multiple services or even more than one account for an individual service. Logic stored in memory and executed by a processor may determine matched services at 3810 by accessing information stored in at least one of a device profile and a user profile. The access information may contain records on available services, their access information, and the access information may include a file type designation for a particular service.

In one example, executed logic matches a file type associated with the executable operation to a file type associated with a remote service 3810 (YES), and in response the computer system retrieves access information for that remote service at 3812, the local access operation can be redirected into a remote service operation at 3814. For example, the computer system may access the remote service using the obtained access information, and provide an interface to transmit the object (data) of the local access to a location within the remote service. In one embodiment, a default service may be configured for any streamlined device. In the absence of matched services at 3810 (NO), the computer system may invoke a default remote service at 3816, obtain the default service access information at 3812 and redirect the local access operation into a remote service operation at 3814.

In another example, process 3800 may be coupled with an interface display presented to a user of the streamlined device. And step 3812 may be used to populate a user interface with a plurality of matched services. The interface may also display additional information associated with the service, for example an account name may be

display to permit a user to distinguish between an account s/he set up as opposed to another user. The system may permit the user to designate the remote service appropriate for use in the interface and step 3814 occurs to redirect the local access operation into the user selected remote service.

In another embodiment, an example sub-process, 3900, FIG. 39, for obtaining service access information may be employed to retrieve remote service information. Example process 3900, includes an act of accessing at least one of a device profile and user profile to obtain matched services at 3904. Obtaining matched services may include filtering from the available services, or it may include retrieving all available services listed in the at least one of a device and user profile. In one example, filtering is performed based on a file type that is the subject of a local access operation, in another example, filtering may be performed to return only remote services of the current system user, although it is to be appreciated that other filtering operations may be performed. Once available services are matched 3904, with or without filtering, the matched services are displayed to a system user at 3906 in a user interface. The user interface permits the user to select from the remote services at 3908. Selection may include clicking on a visual indicator shown in a computer display (e.g. a check box), other options include links to the service, other visual indicators may be used, including drop down boxes and other html, xml, and human readable computer displayed forms. In one alternative (not shown), if the user does not select a service within a predetermined period of time, the system may cancel the operation entirely, or alternatively select a default remote service automatically. At 3910, the object of the local access operation is delivered to the remote service.

Configuring Streamlined Devices

According to one aspect, streamlining user interaction with computer content includes improving user interfaces display, permitting configuration of streamlined device ruing operations. Streamlining user interaction may also include providing for the pre-configuration of a streamlined device with content customized to a particular user.

In one embodiment, a potential user may purchase a streamlined device on-line. During an order process, the user may establish an interactive session with an order management system. the order management system may be operatively connected to device management systems, including for example remote storage space, remote profiles, among other information. The order management system is configured to retrieve

information on the potential user during a purchase session. The potential user is asked for permission to retrieve information from the computer system on which they are order from. The interactive session may also inquire if the user is ordering from home (and thus their home computer), or form another location. In response to granting permission, an executable object is downloaded to the potential user's home computer. The executable object may be encoded use any language, the specific coding language/environment is not important rather the operations performed by execution of the object on computer hardware is.

The executable object mines the home computer of the potential user for web usage information. Web usage information may include for example, browser history (IE and FireFox), favorites, stored accounts, bookmarks, access frequency information. The web usage information is retrieved from the home computer and processed either by the order management system or a streamlined device management system to generate visual representations associated with mappings to computer content. The content that is mapped to, is determined for example, be determined the most frequently accessed site for the potential user. In one embodiment, web cards are generated for the potential user. Each web card is pre-loaded on the device that will be shipped upon completion of the order. Further, for the web cards capable of being display as a channel card – both types may be pre-loaded. Other specialized cards may be generated and pre-loaded for the user based off of information obtained from their home computer. For example a bookmark card is generated from the retrieved bookmarks – The retrieved bookmarks may be passed through a filter to remove bookmarks that have not been accessed in for example 6 months. Although other time periods may be used to filter bookmark information. Web cards may also be created from the most frequently access bookmarks.

Additional information may be mined from the potential user's computer. In particular, communication settings for the home computer may be detected. Any wireless communication setting may be retrieved and preconfigured. After pre-configuration the streamlined device may be considered fully operations out-of-the-box.

The interactive session may also be used to supplement any retrieved data, for example, if the executable object detects frequent access to third party providers – Flickr and Google Docs for example but cannot detect account name and other access

information, the interactive session may query the user to provide the required information.

In other embodiments, the user may be sent executable code via an e-mail during or after a purchase. For example, a user not on his/her own computer during the ordering process may be sent an e-mail containing an executable file, to be run when the user is on their home computer. In another example, a party may purchase a streamlined device for another. The purchaser may provide an e-mail address for the intended recipient, who may execute the file to transmit customization information for the streamlined device.

According to one embodiment an example process, 4000, FIG. 40, for pre-configuring a streamlined device is shown. Process 4000, beings at 4002 in response to a request to purchase a streamlined device. The request is accepted at 4002, and in response a management system requests permission to perform a data mining operation on a recipients computer. Typically the person/entitiy ordering the streamlined device is the same as the recipient, in which case an executable file can be transmitted at the same time a online request to purchase a streamlined device occurs. In one alternative, the request may be entered offline. During an offline request an e-mail address may be requested and the executable file deliver to the recipient's email, notifying him/her of the file and it use to pre-configure their computer. In another alternative, the party ordering the streamlined device intends it for another. When the purchaser and recipient are different, the e-mail address is requested for the intended recipient. At 4006 (YES), permission is obtained and the executable file retrieves information associated with online use of the recipient's computer at 4008. Additional information may be collected including configuration options on the recipient's computer. System settings such as network communication configurations may also be retrieved. In one example, wireless network data is retrieve to permit the streamlined device to connect immediately to a recipient's home network.

During an order for a streamlined device, demographic information is collected on the recipient at 4010. This often includes at a minimum a name and destination address for a recipient of a streamlined device. Thus even if permission is not granted 4006(NO) information can be collected to pre-configured a streamlined device at 4010, in this case the information is constrained to what is provider by the purchaser during the transaction. At 4012, accumulated information is used to pre-configure the streamlined device. Pre-configuration includes establishing wireless network settings for the streamlined device,

and may include generating visual representations of online content that are mapped to for example the most frequently accessed sites on the recipient's home computer. Other configuration can include generating visual representations that map to services configured on the recipient's computer (online banking, photo management services, file sharing services, media management services, e-mail providers, etc.). The visual representations may be configured with access information including user names and passwords so that a recipient can switch over the streamlined device seamlessly.

Special Purpose Computer

FIG. 51 shows a block diagram of a computer system 5100 in which various aspects of the present invention may be practiced. For example, various aspects of the invention may be implemented as specialized software executing in one or more computer systems including multiple computer systems communicating over network. Computer system 5100 may include a processor 5106 connected to one or more memory devices 5110, for storing data. Typically computer system 5100 is implemented without hard drive devices. Memory 5110 is typically used for storing programs and data during operation of the computer system 5100, and typically comprises Flash memory. Components of computer system 5100 may be coupled by an interconnection mechanism 5108, which may include one or more busses (e.g., between components that are integrated within a same machine) and/or a network (e.g., between components that reside on separate discrete machines). The interconnection mechanism enables communications (e.g., data, instructions) to be exchanged between system components of system 5100.

Computer system 5100 may also include one or more input 5104/output (I/O) devices 5102, for example, a keyboard, mouse, trackball, microphone, touch screen, a printing device, display screen, speaker, etc. Output devices may include video cards and separate video memory for improved processing performance. Storage 5112, typically includes a computer readable and writeable nonvolatile recording medium in which signals are stored that define a program to be executed by the processor or information stored on or in the medium to be processed by the program. The medium may, for example, be a flash memory. Typically, in operation, the processor causes data to be read from the nonvolatile recording medium into another memory that allows for faster access to the information by the processor than does the medium. This memory is typically a

volatile, random access memory such as a dynamic random access memory (DRAM) or static memory (SRAM).

Referring again to FIG. 51, the memory may be located in storage 5112 as shown, or in memory system 5110. The processor 5106 generally manipulates the data within the memory 5110, and then copies the data to the medium associated with storage 5112 after processing is completed. A variety of mechanisms are known for managing data movement between the medium and integrated circuit memory element and the invention is not limited thereto. The invention is not limited to a particular memory system or storage system.

The computer system may include specially-programmed, special-purpose hardware, for example, an application-specific integrated circuit (ASIC). Aspects of the invention may be implemented in software executing on hardware, hardware or firmware, or any combination thereof. Further, such methods, acts, systems, system elements and components thereof may be implemented as part of the computer system described above or as an independent component.

Although computer system 5100 is shown by way of example as one type of computer system upon which various aspects of the invention may be practiced, it should be appreciated that aspects of the invention are not limited to being implemented on the computer system as shown in FIG. 51. Various aspects of the invention may be practiced on one or more computers having a different architectures or components that that shown in FIG. 51.

Computer system 5100 may programmable using a high-level computer programming language. Computer system 5100 may be also implemented using specially programmed, special purpose hardware. In computer system 5100, processor 5106 is typically a commercially available processor such as the well-known Pentium class processor available from the Intel Corporation. Many other processors are available, including multi-core processors. Such a processor usually executes an operating system which may be, for example, the Windows-based operating systems (e.g., Windows Vista, Windows NT, Windows 2000 (Windows ME), Windows XP operating systems) available from the Microsoft Corporation, MAC OS System X operating system available from Apple Computer, one or more of the Linux-based operating system distributions (e.g., the Enterprise Linux operating system available from Red Hat Inc.), the Solaris operating

system available from Sun Microsystems, or UNIX operating systems available from various sources. Many other operating systems may be used, and the invention is not limited to any particular operating system.

The processor and operating system together define a computer platform for which application programs in high-level programming languages are written. It should be understood that the invention is not limited to a particular computer system platform, processor, operating system, or network. Also, it should be apparent to those skilled in the art that the present invention is not limited to a specific programming language or computer system. Further, it should be appreciated that other appropriate programming languages and other appropriate computer systems could also be used.

One or more portions of the computer system may be distributed across one or more computer systems coupled to a communications network. For example, various aspects of the invention may be distributed among one or more computer systems (e.g., servers) configured to provide a service to one or more client computers, or to perform an overall task as part of a distributed system. For example, various aspects of the invention may be performed on a client-server or multi-tier system that includes components distributed among one or more server systems that perform various functions according to various embodiments of the invention. In one embodiment, the Litl cloud is maintained on server systems accessible from a plurality of devices. These components may be executable, intermediate (e.g., IL) or interpreted (e.g., Java) code which communicate over a communication network (e.g., the Internet) using a communication protocol (e.g., TCP/IP).

It should be appreciated that the invention is not limited to executing on any particular system or group of systems. Also, it should be appreciated that the invention is not limited to any particular distributed architecture, network, or communication protocol.

Physical Configurations

Referring to FIG. 52C, when the portable computer 100 is in the easel mode, the base is disposed at an angle 134 to the display component. This angle 134 is adjustable, for example, to allow a comfortable viewing angle to the display screen to be maintained for different positions of a user 136 and of the portable computer 100, as illustrated in FIGS. 52A, 52B and 52C. For example, when the user 136 is further from the portable computer, the angle 134a (FIG. 52A) may be made smaller than the angle 134b when the

user is closer to the portable computer (FIG. 52B). As discussed above, in one example, the orientation sensor (not shown) may be used to detect, either approximately or precisely, the angle 134 and to provide the information to the computer operating system.

Referring to FIGS. 53A and 53B, there is illustrated a portion of the portable computer 100 illustrating a hinge assembly 138 that allows the portable computer to be configured into either the laptop mode (FIG. 53A) or the easel mode (FIG. 53B), according to aspects of the invention. According to one embodiment, the hinge assembly 138 accommodates 0-320 degrees of rotation, allowing a minimum angle 134 (see e.g. FIG. 52C) of 40 degrees. However, it is to be appreciated that the hinge assembly 138 may allow greater or fewer degrees of rotation, provided only that sufficient rotation is allowed so as to configure the portable computer 100 into either the laptop mode or the easel mode. As discussed above, in one embodiment the portable computer 100 includes an orientation sensor (not shown) that is configured to detect a relative orientation of the display component 102 and the base component 104. In one example, the orientation sensor may be an accelerometer incorporated into the base component 104, as discussed above. Alternatively, the orientation sensor may be incorporated into the hinge assembly 138 and may be used to detect movement of the hinge assembly, and to translate that movement into an information about the relative orientation of the display component 102 and the base component 104 (for example, a size of the angle 134). It is also to be appreciated that the orientation sensor may include electronic or mechanical components, or a combination thereof. For example, the hinge assembly may be provide with detents that provide an indication of the mode of the portable computer.

As discussed above, and also illustrated in FIGS. 53A and 53B, the portable computer may also comprise a scroll wheel 132 that allows a user to adjust, control and/or select various aspects of the portable computer (e.g., wireless capability or speaker volume) or items displayed on the display screen 110. A housing 160 may contain or support various mechanical and/or electronic components (not shown) that are coupled to the scroll wheel 132 and are configured to convert physical movement of the scroll wheel into electrical signals. These electrical signals may be provided to the central processing unit of the portable computer 100 which processes the electrical signals so as to translate movement of the scroll wheel into control of a selected feature, for example, adjusting the volume of the speaker(s) or selecting a particular item displayed on the display screen.

Having thus described several aspects of at least one embodiment, it is to be appreciated various alterations, modifications, and improvements will readily occur to those skilled in the art. Such alterations, modifications, and improvements are intended to be part of this disclosure and are intended to be within the scope of the invention. Accordingly, the foregoing description and drawings are by way of example only, and the scope of the invention should be determined from proper construction of the appended claims, and their equivalents.

CLAIMS

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, the user interface comprising:

a map based graphical user interface displayed on the computer system, the map based user interface comprising:

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; and

the plurality of visual representations of computer content rendered on the computer display, wherein the plurality of visual representations of computer content include an association to a first view of the plurality of views, the first view including the computer content; and

an execution component comprising at least one computer hardware element configured to transition the computer system display between the plurality of views, wherein the execution component further comprises a view selector component configured to select one of the plurality of views for display on a computer system in response to a computer system configuration.

2. The user interface of claim 1, wherein the execution component is further configured to transition between the plurality of views in response to execution of at least one of a computer system operation, a visual representation, a computer system configuration, and a change in computer system configuration.

3. The user interface of claim 1, further comprising a plurality of modes of content for the computer content rendered on the computer display, wherein the plurality of modes of content comprise at least one of a web content mode, a channel content mode, a media content mode, an application content mode, a communication content mode, and a passive content mode.

4. The user interface of claim 3, wherein the plurality of views are configured to organize modes of content into different views.

5. The user interface of claim 3, wherein the web content mode is configured to display web based content for proximal viewing by a user, wherein the channel content mode is configured to display web based content for non-proximal viewing by a user, wherein the media content mode is configured to display media based content for non-proximal viewing by a user mode, wherein the application content mode is configured to display computer applications for use by a user, wherein the communication content mode is configured to display computer configuration operations for viewing by a user, and wherein the passive content mode is configured to display web based content for non-proximal viewing without user interaction.

6. The user interface of claim 3, 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 two content modes.

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.

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 is displayed responsive to a computer system configuration, 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 computer display screen to the right of the computer display screen, wherein the body display is rendered below the header display in the display screen of the computer system.

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.

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.

11. The user interface of claim 1, further comprising a storage component configured to retain a previous view state.

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.

13. The user interface of claim 11, further comprising the navigation element displayed in the header display.

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.

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.

16. The user interface of claim 8, further comprising a nascent card displayed in the body of the home view, wherein the nascent card is configured to permit generation of additional visual representations of digital content.

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 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, 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 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.

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.

ABSTRACT

Various aspects and embodiments are directed to a graphical user interface that organizes interface elements into views of computer content for presentation to a user. Different views of are used to provide an interface that is responsive to configurations of the device and activities performed by the user. Aspects include permitting the user to transition the device from one configuration to another during its use. The elements that comprise the graphical user interface are configured to present a summarized view of available actions and content to simplify user interaction. The different views present different organizations of the interface elements and in some examples display only certain modes of content in order to reduce the number of options a user must navigate. Methods and systems for streamlining user interaction with computer content are also provided. Streamlining includes, for example, pre-configuring a user device based on received information.

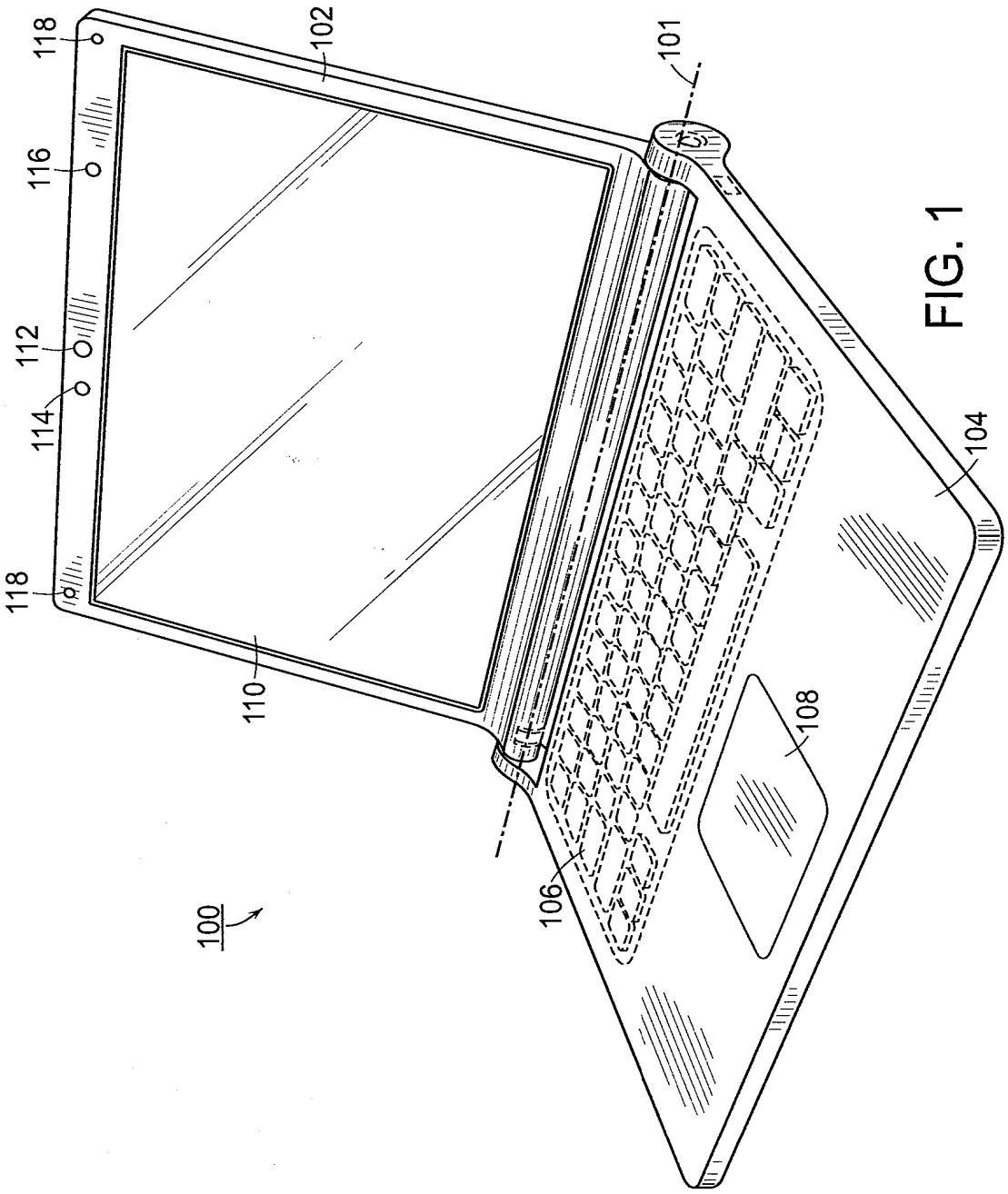


FIG. 1

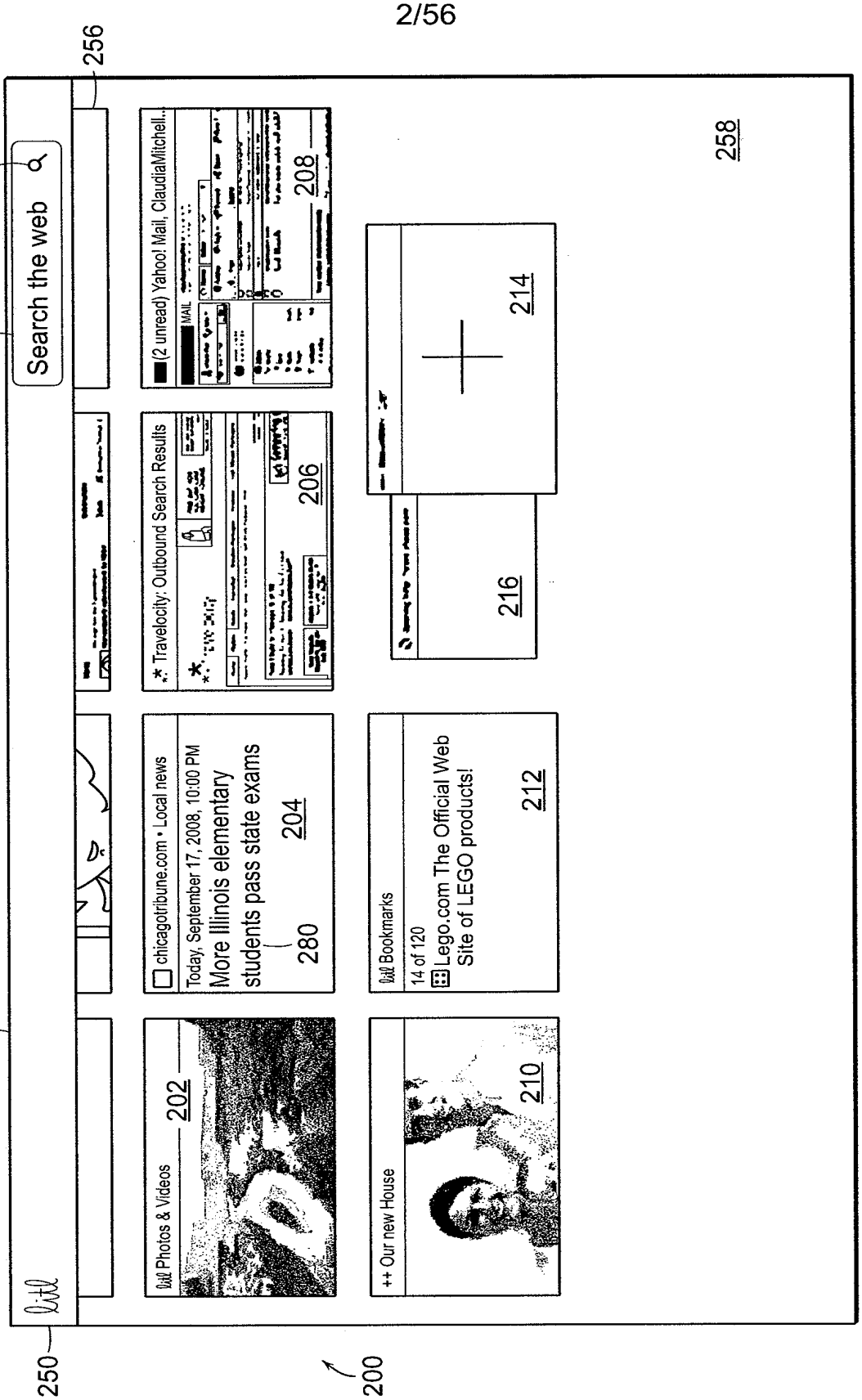

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FIG. 2

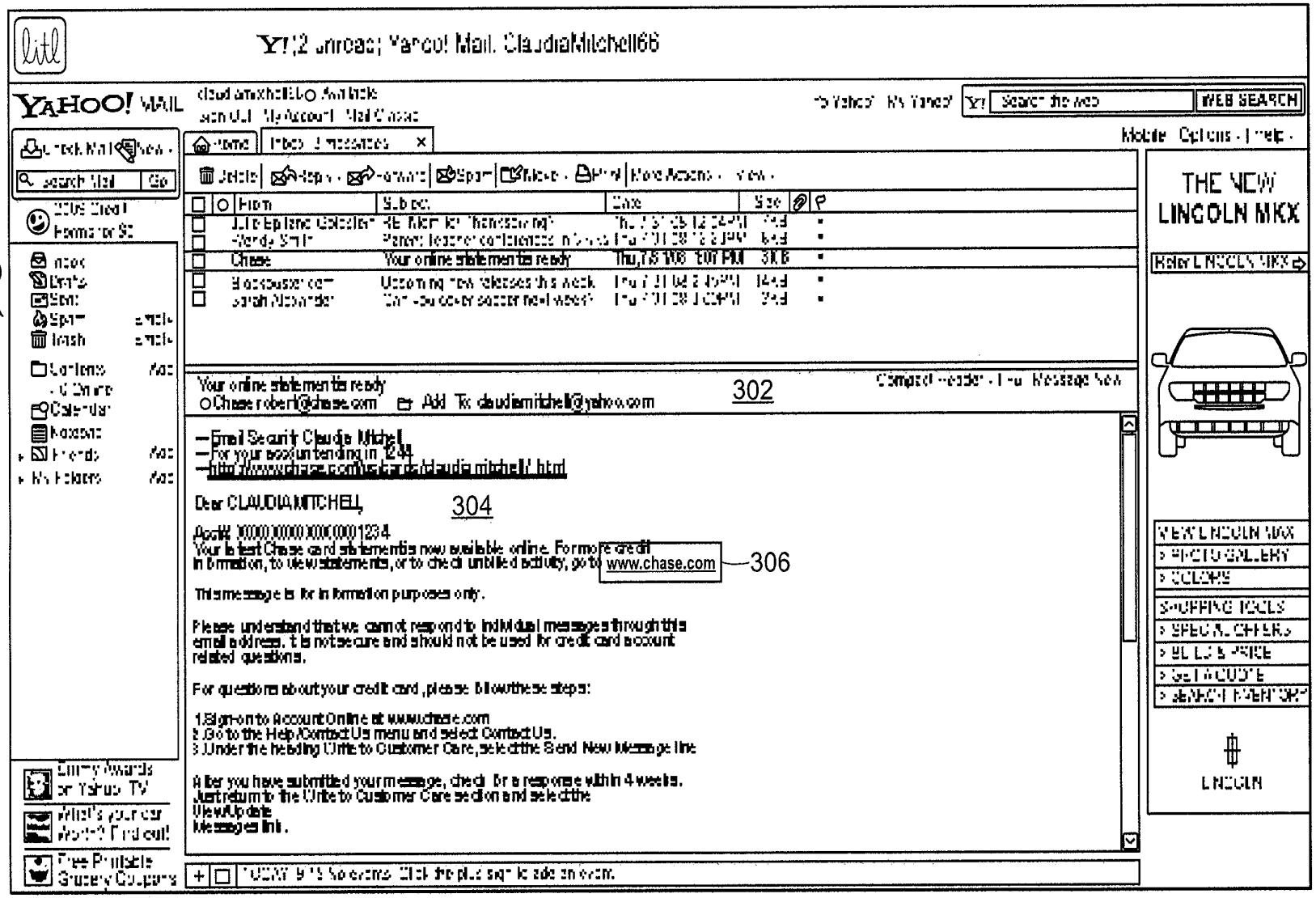

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FIG. 3A

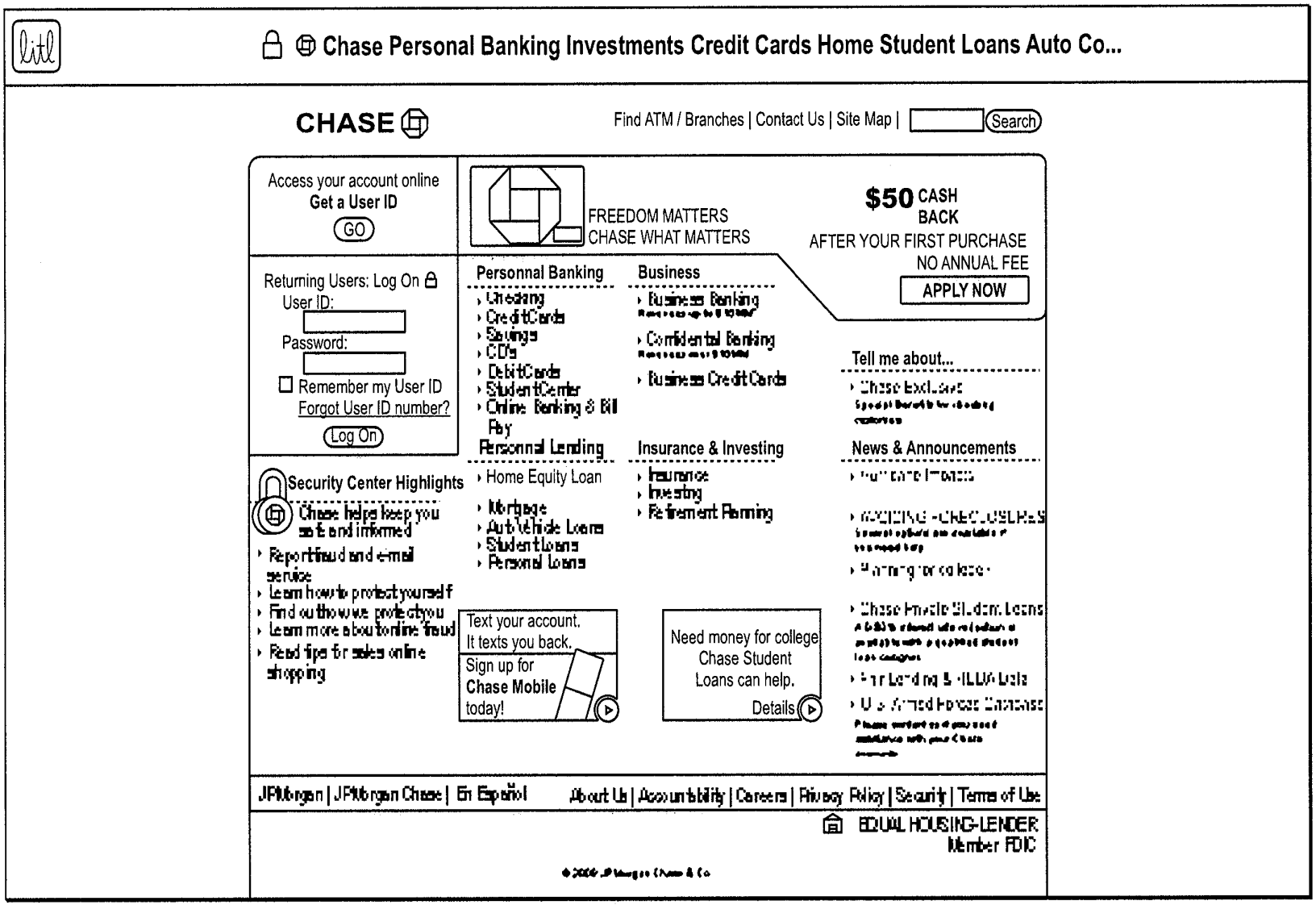
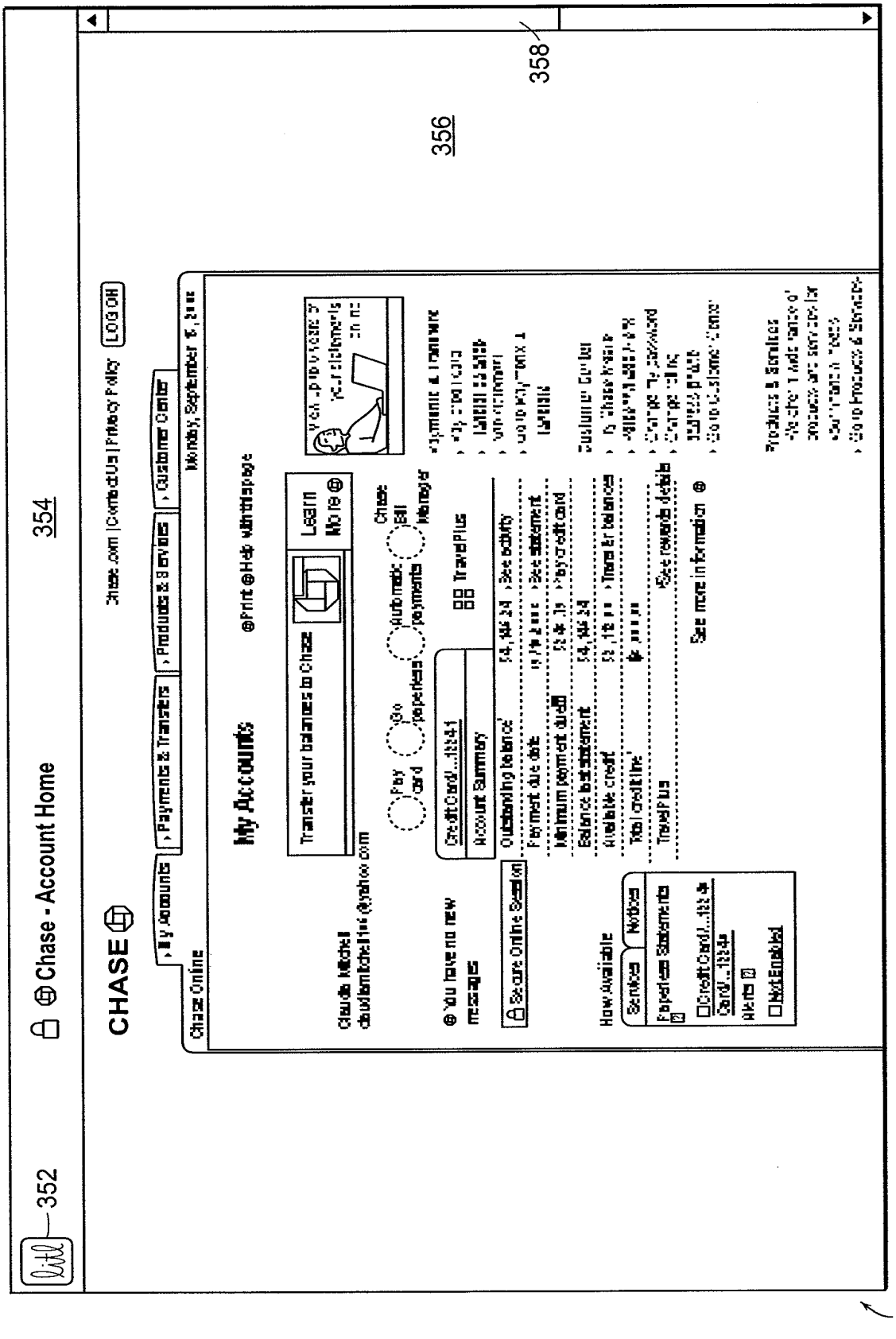

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FREEDOM MATTERS
CHASE WHAT MATTERS
$50 CASH BACK
AFTER YOUR FIRST PURCHASE
NO ANNUAL FEE
APPLY NOW
Returning Users: Log On
User ID:
Password:
Remember my User ID
Forgot User ID number?
Log On
Personal Banking
Checking
Credit Cards
Savings
CDs
Debit Cards
Student Center
Online Banking & Bill Pay
Business
Business Banking
Confidential Banking
Business Credit Cards
Personal Lending
Home Equity Loan
Mortgage
Auto/Vehicle Loans
Student Loans
Personal Loans
Insurance & Investing
Insurance
Investing
Retirement Planning
Tell me about...
News & Announcements
Security Center Highlights
Chase helps keep you safe and informed
Report fraud and e-mail service
Learn how to protect yourself
Find out how we protect you
Learn more about online fraud
Read tips for safer online shopping
Text your account. It texts you back.
Sign up for Chase Mobile today!
Need money for college Chase Student Loans can help.
Details
JPMorgan | JPMorgan Chase | En Español
About Us | Accountability | Careers | Privacy Policy | Security | Terms of Use
EQUAL HOUSING LENDER
Member FDIC

FIG. 3B


352
Chase - Account Home
354
CHASE
Chase.com | Contact Us | Privacy Policy
LOG ON
My Accounts
Payments & Transfers
Products & Services
Customer Center
Chase Online
My Accounts
Print Help with this page
Monday, September
Transfer your balances to Chase
Learn More
Pay
Go
Automatic payments
Chase bill
Manage
Credit Card...1111
Account Summary
TravelPlus
Outstanding balance
See activity
Payment due date
See statement
Minimum payment due
Pay credit card
Balance last statement
Available credit
Transfer balances
Total credit line
TravelPlus
See rewards details
See more information
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How Available
Services
Notices
Paperless Statements
Credit Card...1111
Alerts
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356
358
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FIG. 3C

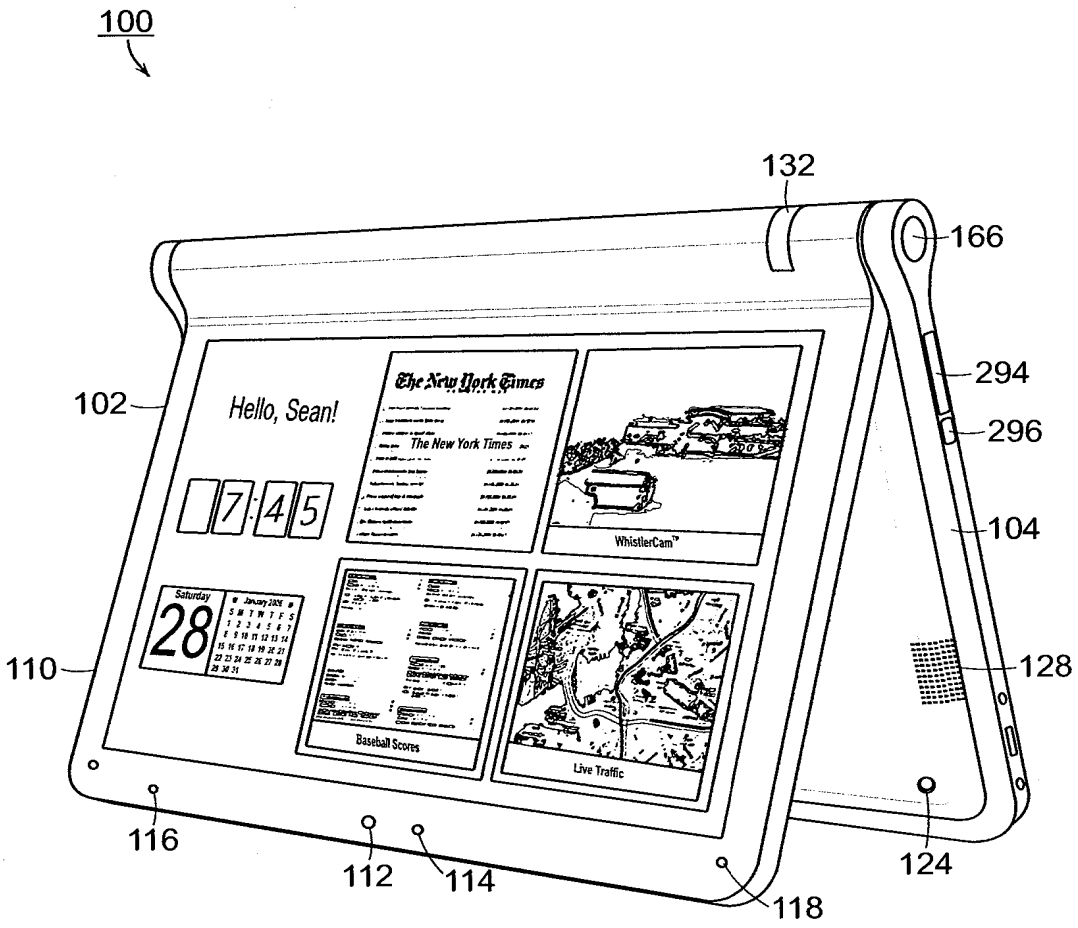

100
132
166
294
296
102
104
110
128
116
112
114
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124
Hello, Sean!
7:45
The New York Times
WhistlerCam™
Baseball Scores
Live Traffic
Saturday
28

FIG. 4

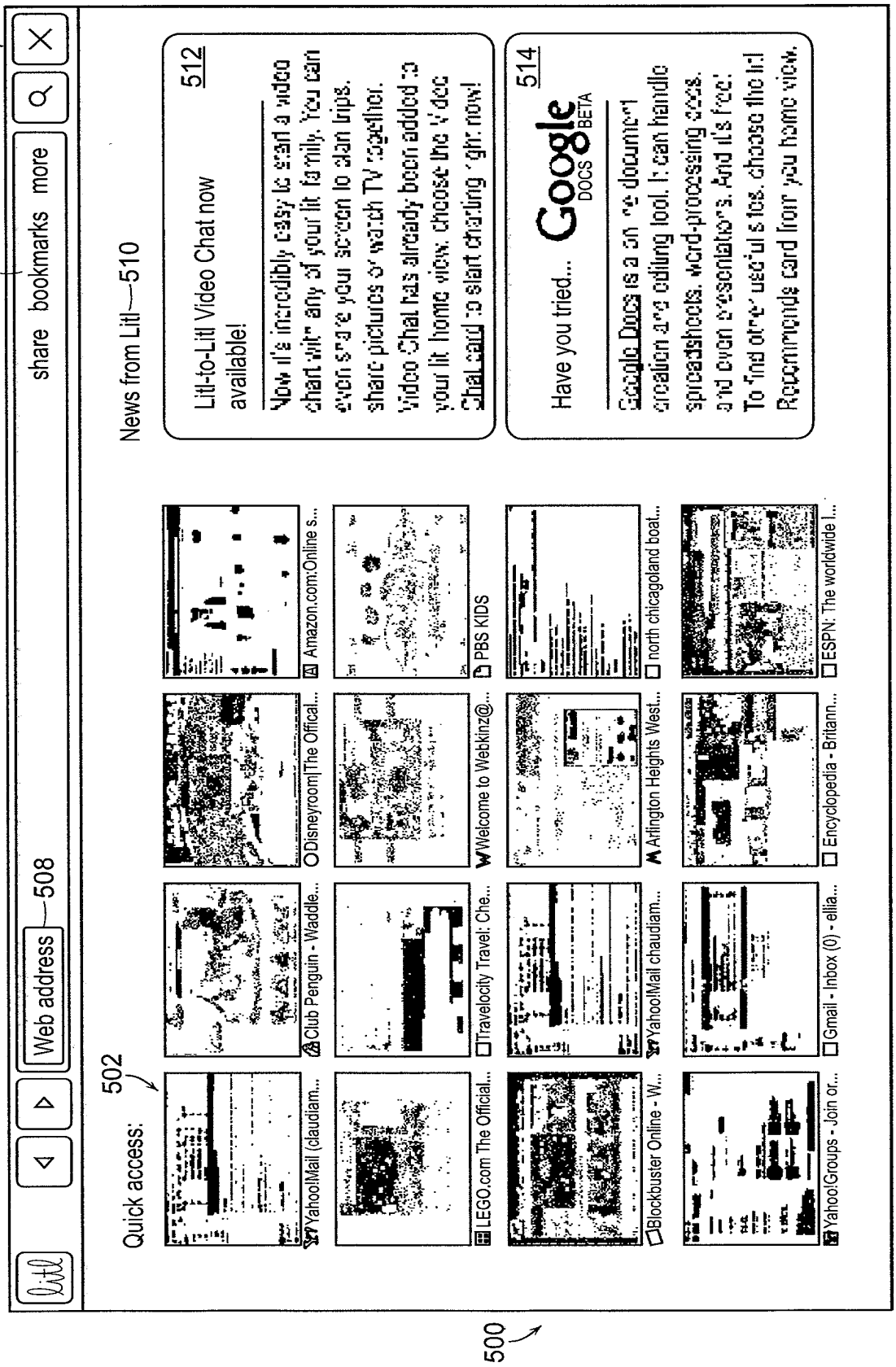

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Quick access:
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News from Litl
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Litl-to-Litl Video Chat now available!
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Have you tried... Google DOCS BETA
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FIG. 5

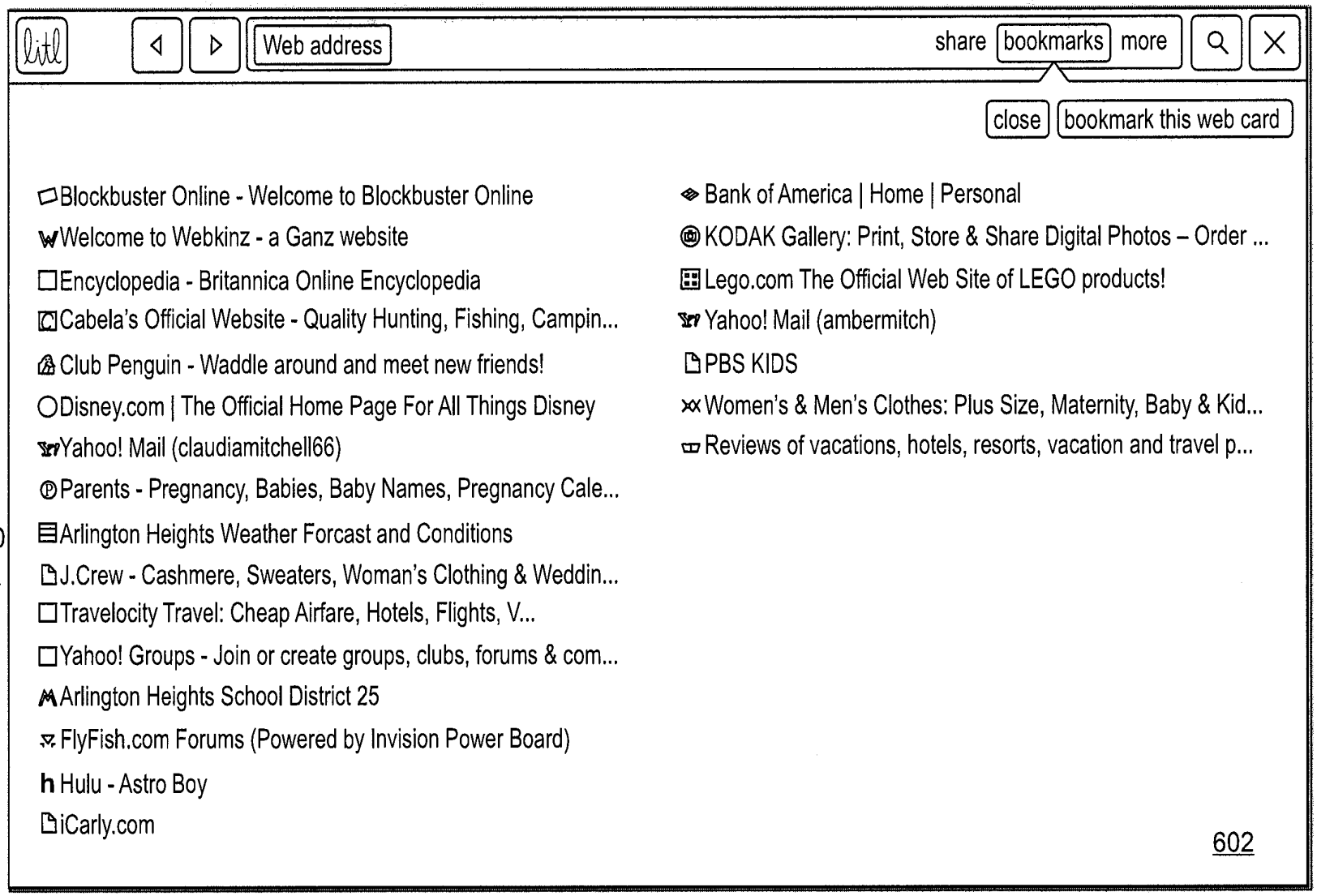

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Web address
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bookmark this web card
Blockbuster Online - Welcome to Blockbuster Online
Welcome to Webkinz - a Ganz website
Encyclopedia - Britannica Online Encyclopedia
Cabela's Official Website - Quality Hunting, Fishing, Campin...
Club Penguin - Waddle around and meet new friends!
Disney.com | The Official Home Page For All Things Disney
Yahoo! Mail (claudiamitchell66)
Parents - Pregnancy, Babies, Baby Names, Pregnancy Cale...
Arlington Heights Weather Forcast and Conditions
J.Crew - Cashmere, Sweaters, Woman's Clothing & Weddin...
Travelocity Travel: Cheap Airfare, Hotels, Flights, V...
Yahoo! Groups - Join or create groups, clubs, forums & com...
Arlington Heights School District 25
FlyFish.com Forums (Powered by Invision Power Board)
Hulu - Astro Boy
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KODAK Gallery: Print, Store & Share Digital Photos – Order ...
Lego.com The Official Web Site of LEGO products!
Yahoo! Mail (ambermitch)
PBS KIDS
Women's & Men's Clothes: Plus Size, Maternity, Baby & Kid...
Reviews of vacations, hotels, resorts, vacation and travel p...
600
602

FIG. 6

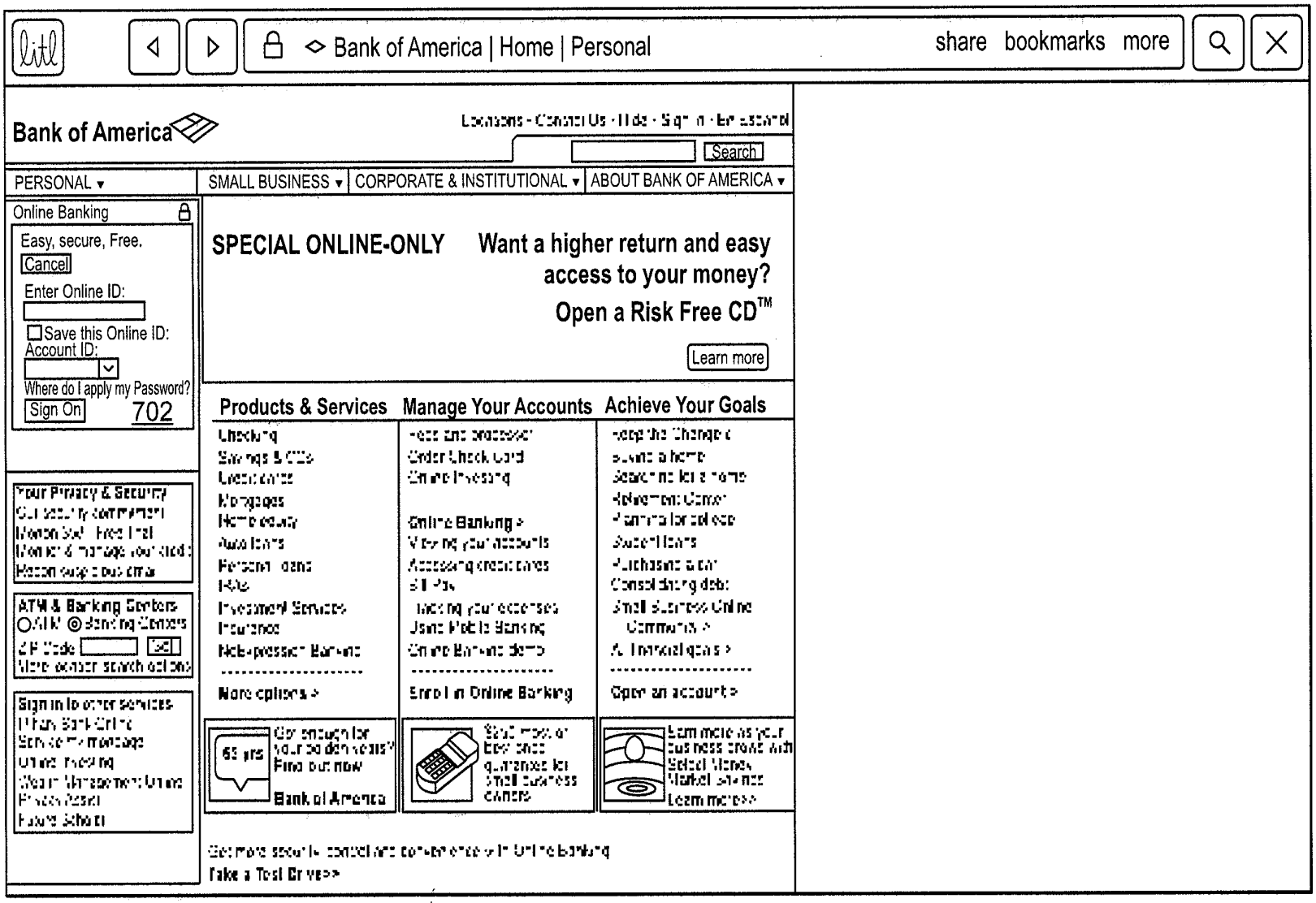

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Cancel
Enter Online ID:
Save this Online ID:
Account ID:
Where do I apply my Password?
Sign On
702
SPECIAL ONLINE-ONLY
Want a higher return and easy access to your money?
Open a Risk Free CD™
Learn more
Products & Services
Manage Your Accounts
Achieve Your Goals
Checking
Savings & CDs
Credit cards
Mortgages
Home equity
Auto loans
Personal loans
IRAs
Investment Services
Insurance
Debit card
Order Check Card
Online Investing
Online Banking >
Viewing your accounts
Accessing credit cards
Bill Pay
Joint Public Banking
Online Banking demo
Enroll in Online Banking
Purchasing a car
Consolidating debt
Small Business Online Community >
Financial plans >
Open an account >
More options >
Your Privacy & Security
ATM & Banking Centers
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ZIP Code
Go
Sign in to other services
Bank of America
Take a Test Drive >>

FIG. 7A

700

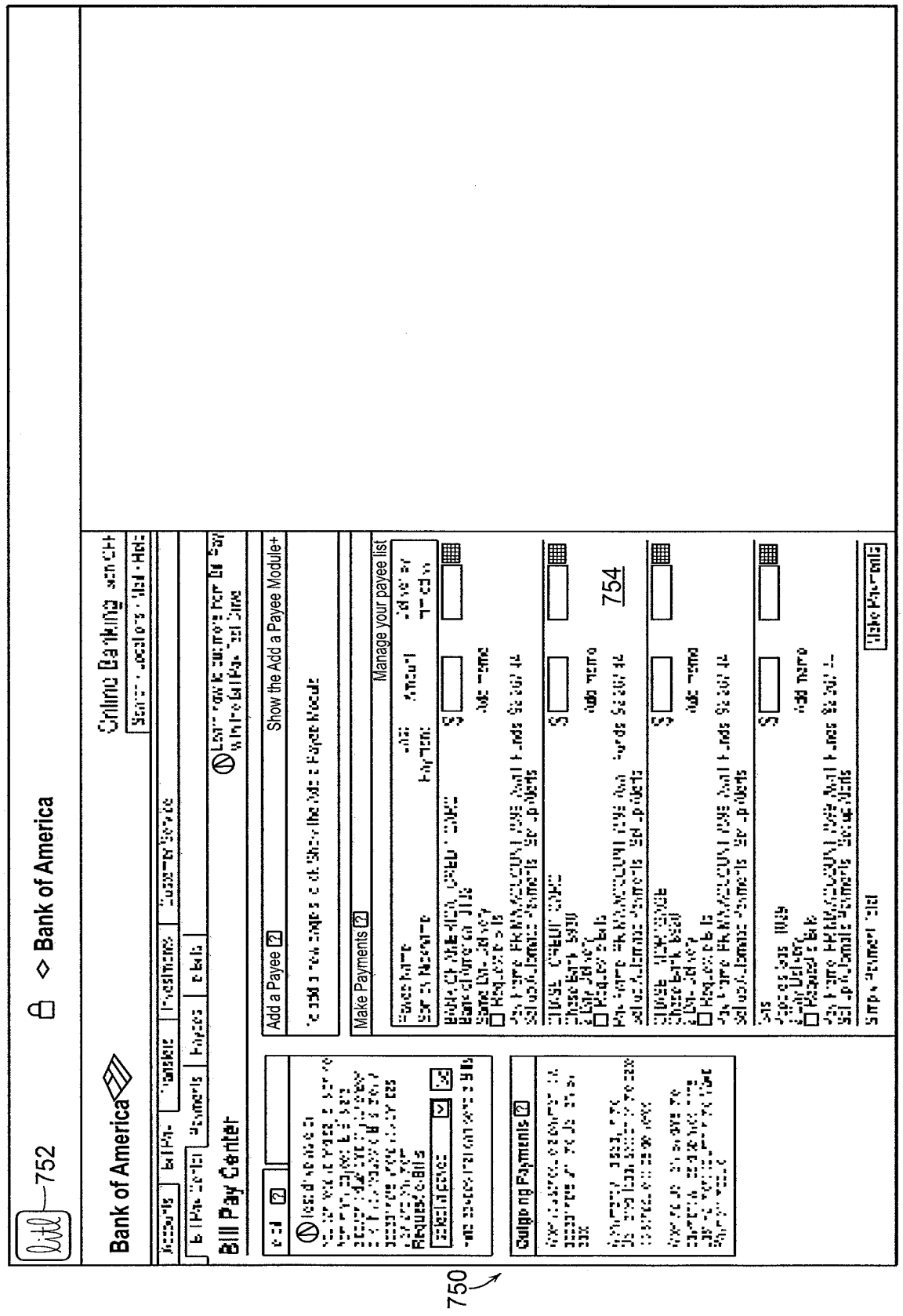

752
Bank of America
Bill Pay Center
Add a Payee
Show the Add a Payee Module+
Make Payments
Manage your payee list
754
750

FIG. 7B

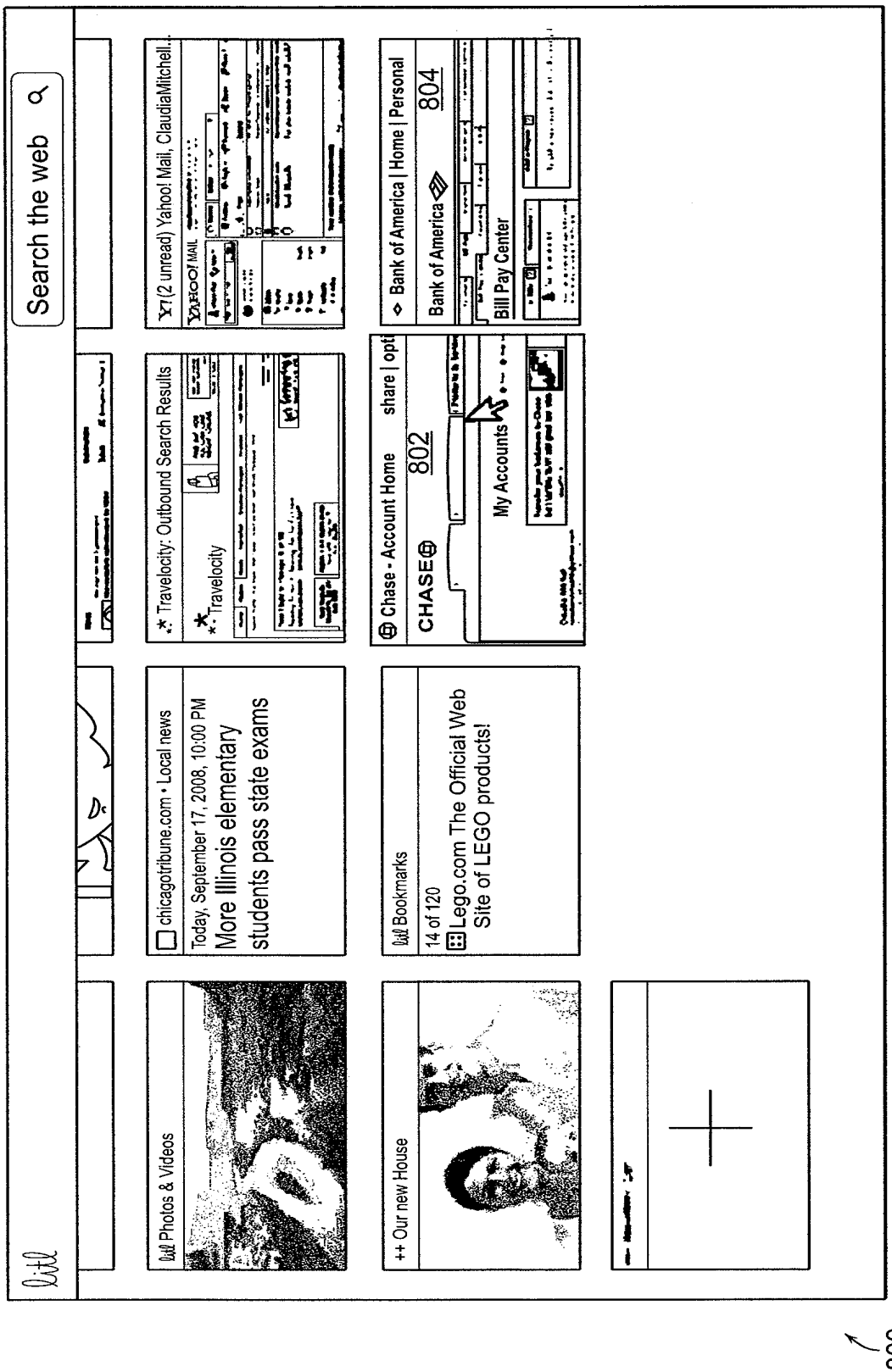

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Travelocity: Outbound Search Results
Travelocity
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Bookmarks
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++ Our new House
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Bill Pay Center
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FIG. 8

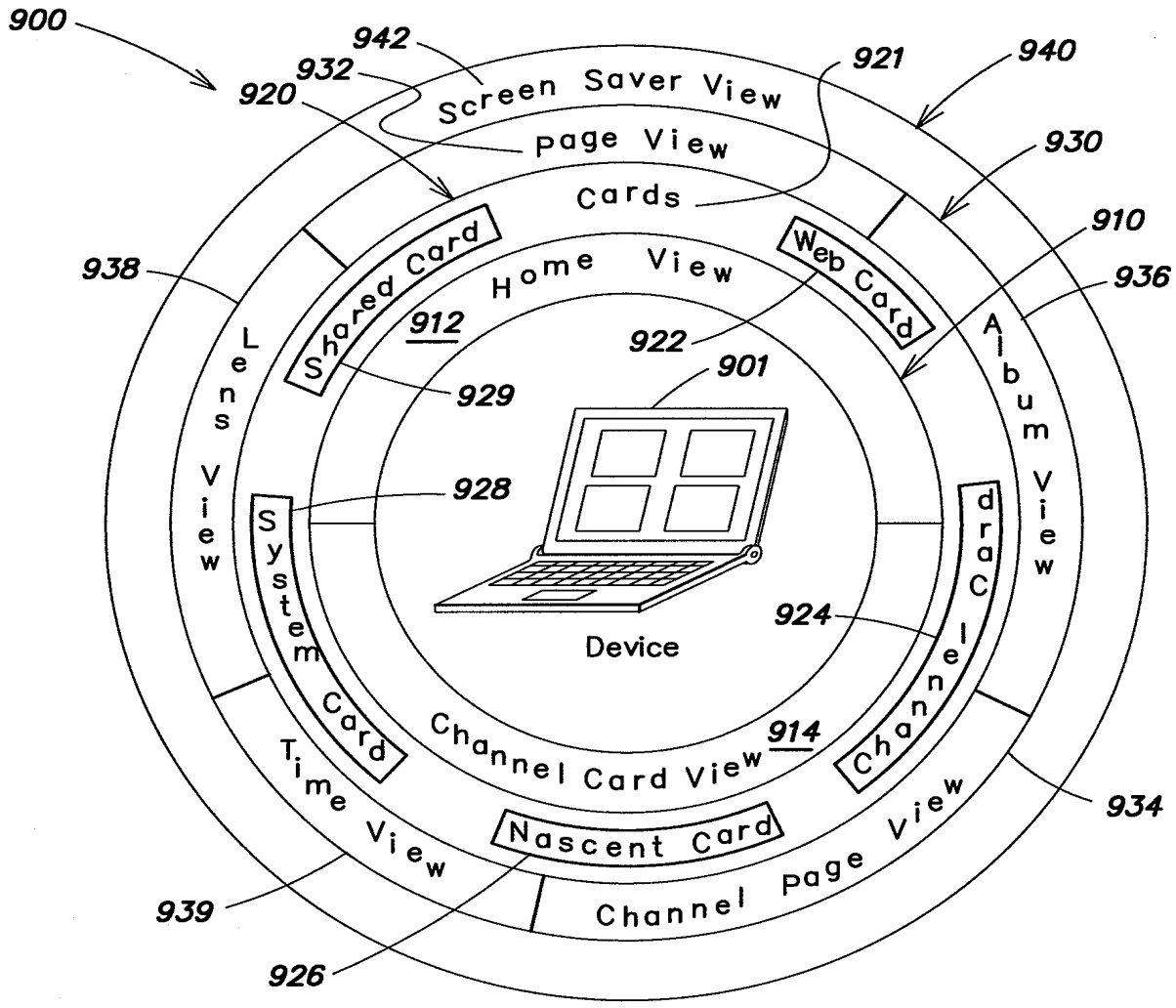

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Screen Saver View
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Home View
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901
929
928
924
Device
914
Channel Card View
934
939
926
Lens View
Shared Card
Web Card
Album View
System Card
Time View
Nascent Card
Channel page View
Channel Card

FIG. 9

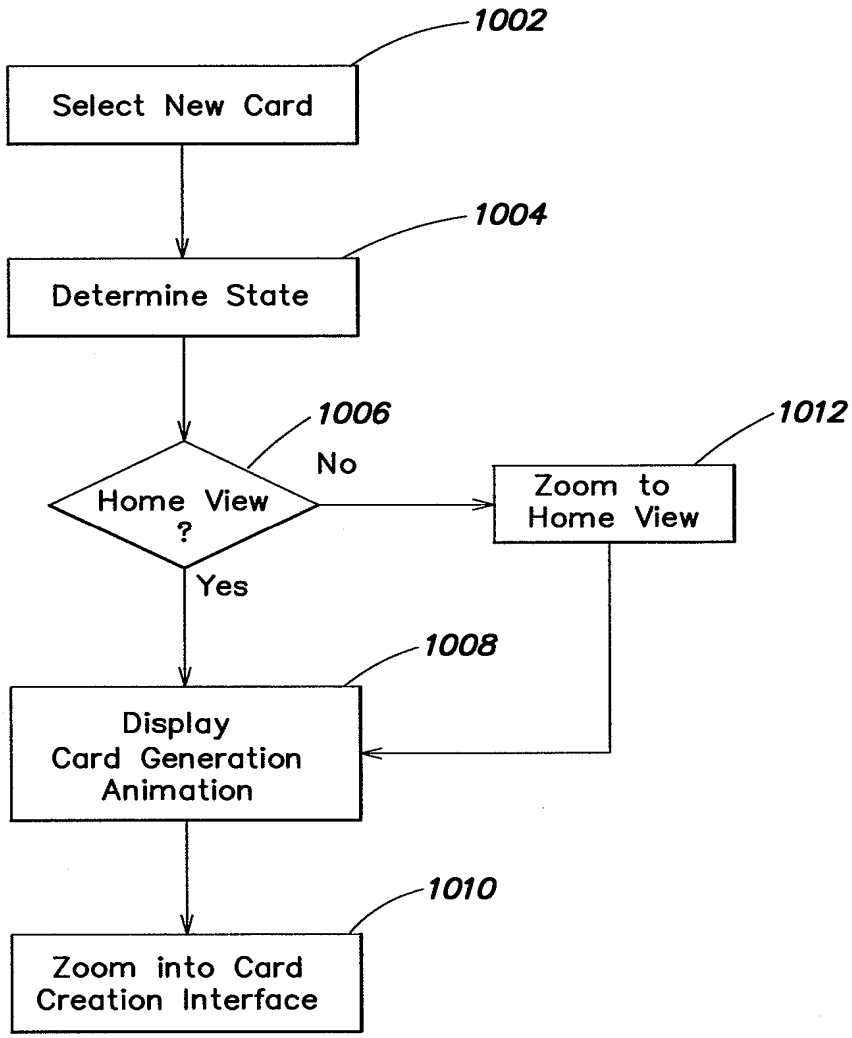

1002
Select New Card
1004
Determine State
1006
Home View ?
No
Yes
1012
Zoom to Home View
1008
Display Card Generation Animation
1010
Zoom into Card Creation Interface

FIG. 10

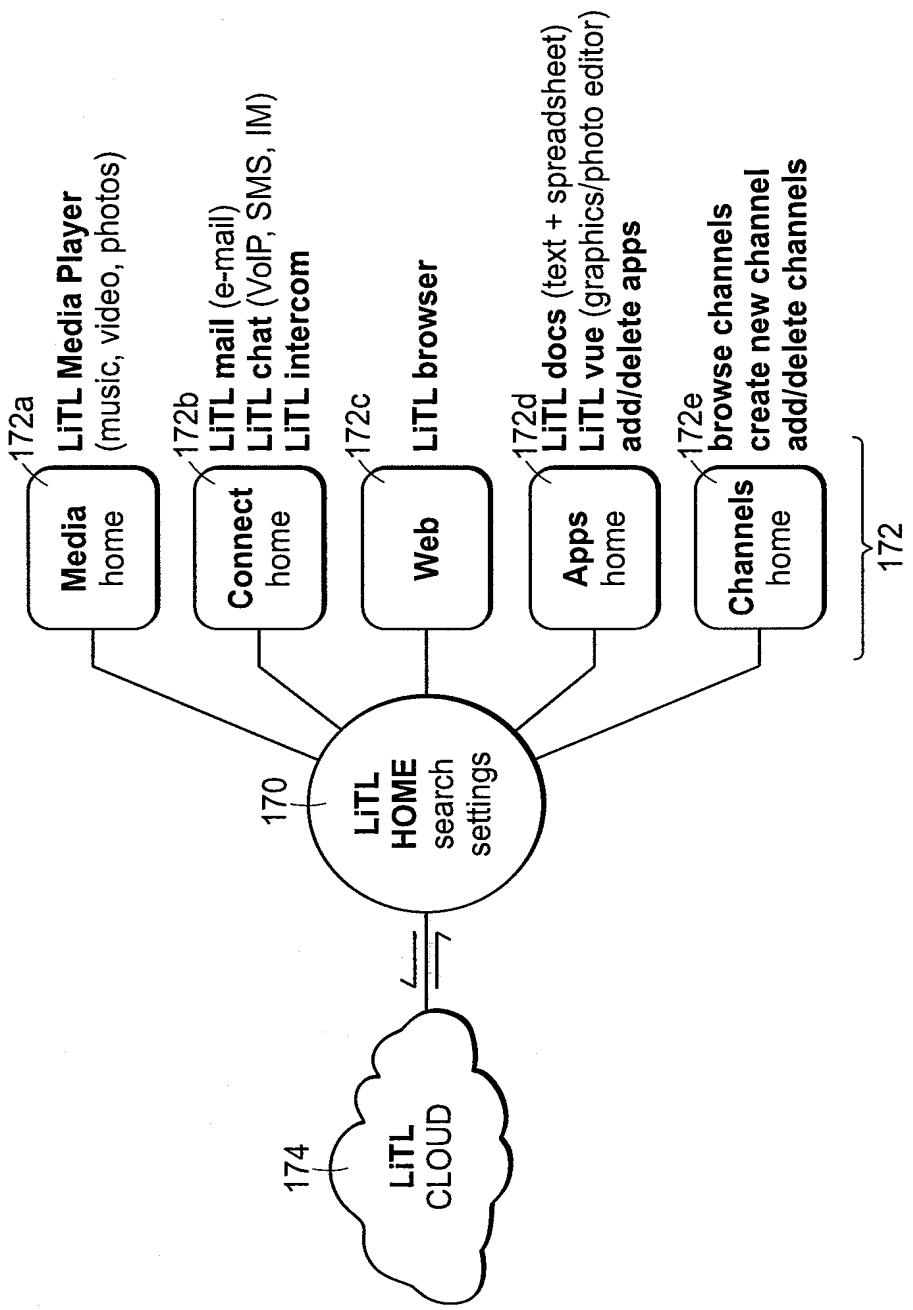

172a
LiTL Media Player
(music, video, photos)
Media
home
172b
LiTL mail (e-mail)
LiTL chat (VoIP, SMS, IM)
LiTL intercom
Connect
home
172c
LiTL browser
Web
172d
LiTL docs (text + spreadsheet)
LiTL vue (graphics/photo editor)
add/delete apps
Apps
home
172e
browse channels
create new channel
add/delete channels
Channels
home
172
170
LiTL
HOME
search
settings
174
LiTL
CLOUD

FIG. 11

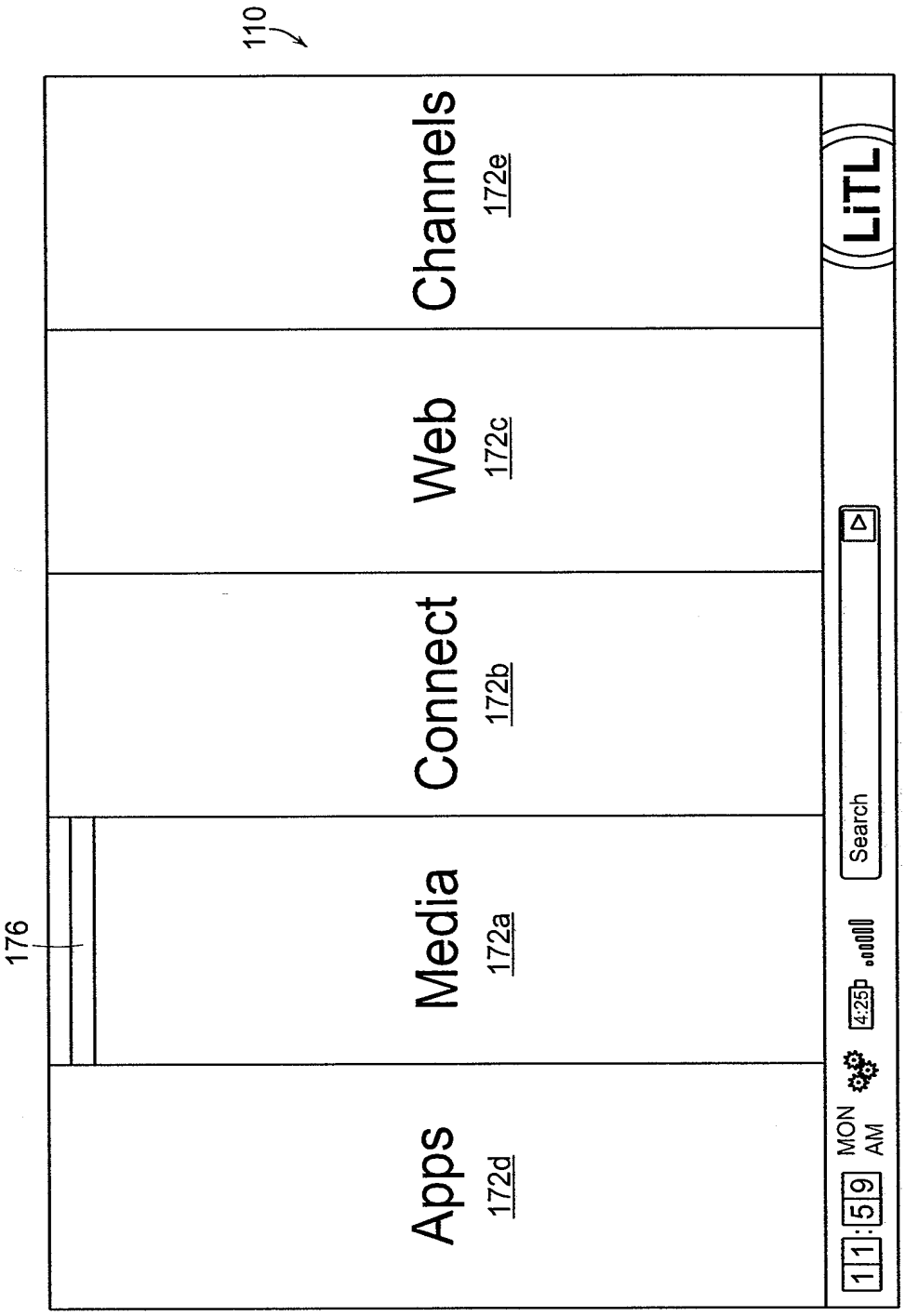

110
176
Apps
172d
Media
172a
Connect
172b
Web
172c
Channels
172e
11:59
MON
AM
4:25p
Search
LiTL

FIG. 12

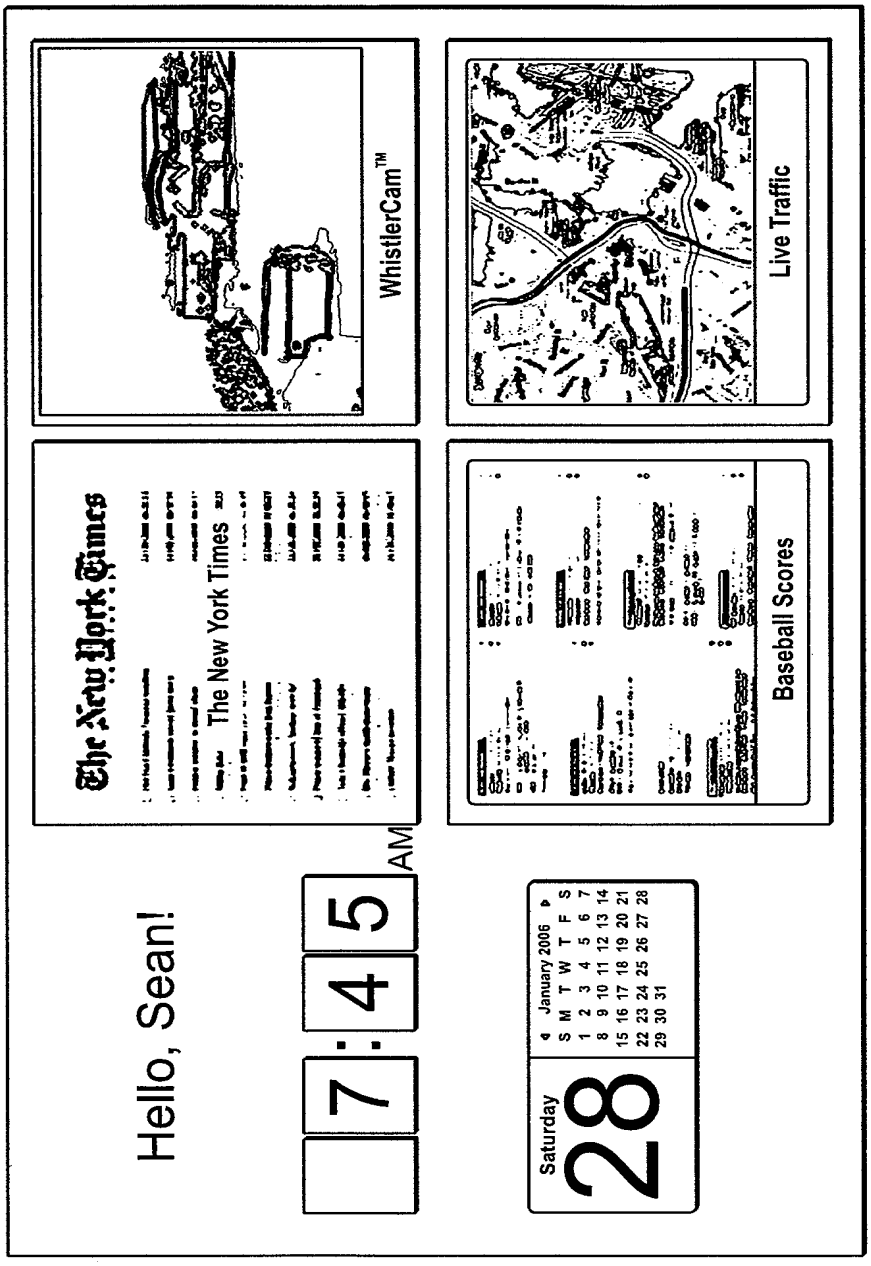

110
Hello, Sean!
7:45 AM
The New York Times
WhistlerCam™
Baseball Scores
Live Traffic
Saturday
28
January 2006

FIG. 13

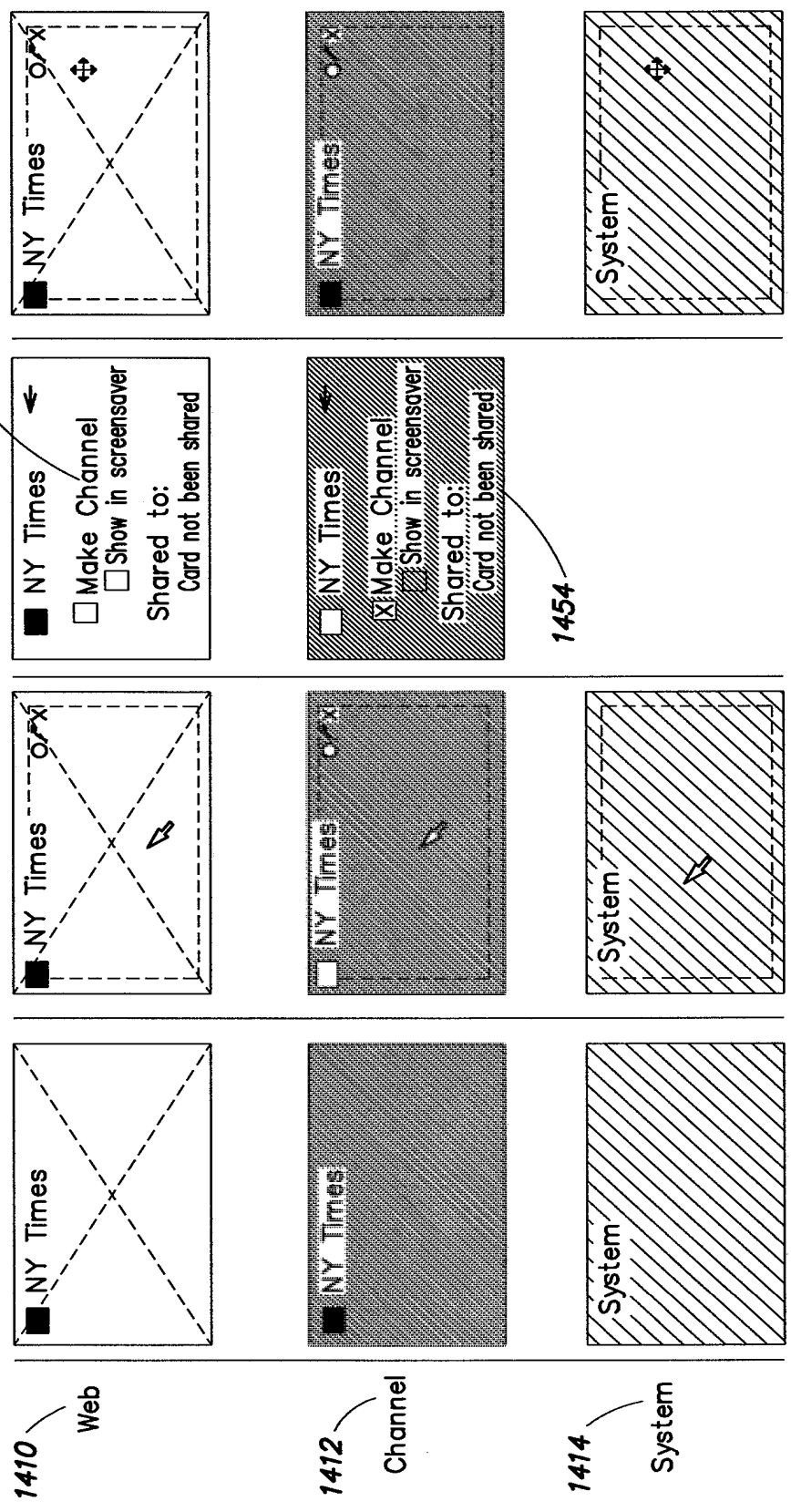

1408
Click–Drag
1406
Options
RSS available
1452
Make Channel
Show in screensaver
Shared to:
Card not been shared
1454
1404
Hover
1402
Normal
NY Times
System
1410
Web
1412
Channel
1414
System

FIG. 14

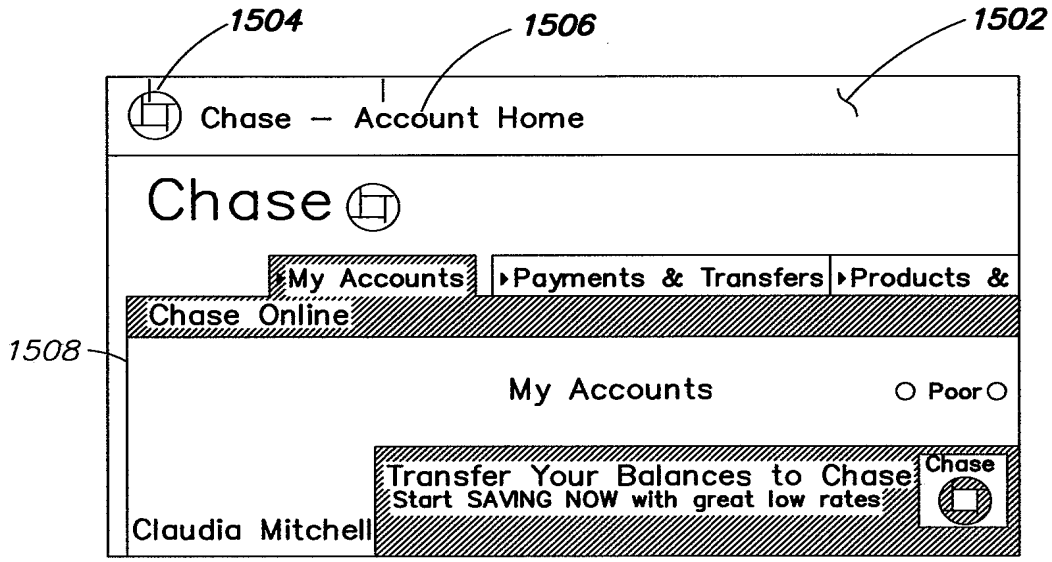


FIG. 15A

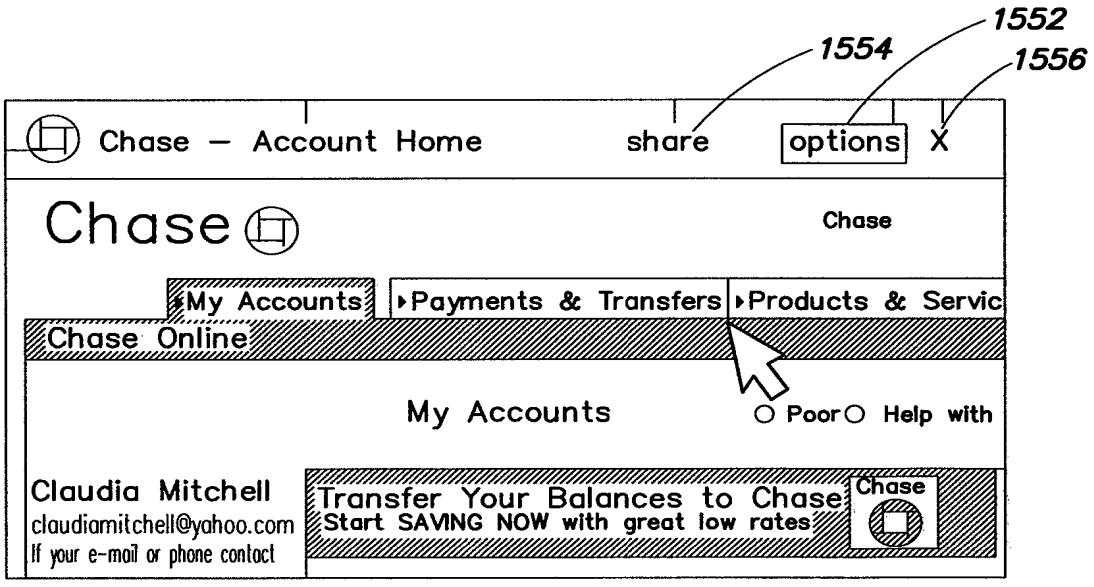


FIG. 15B

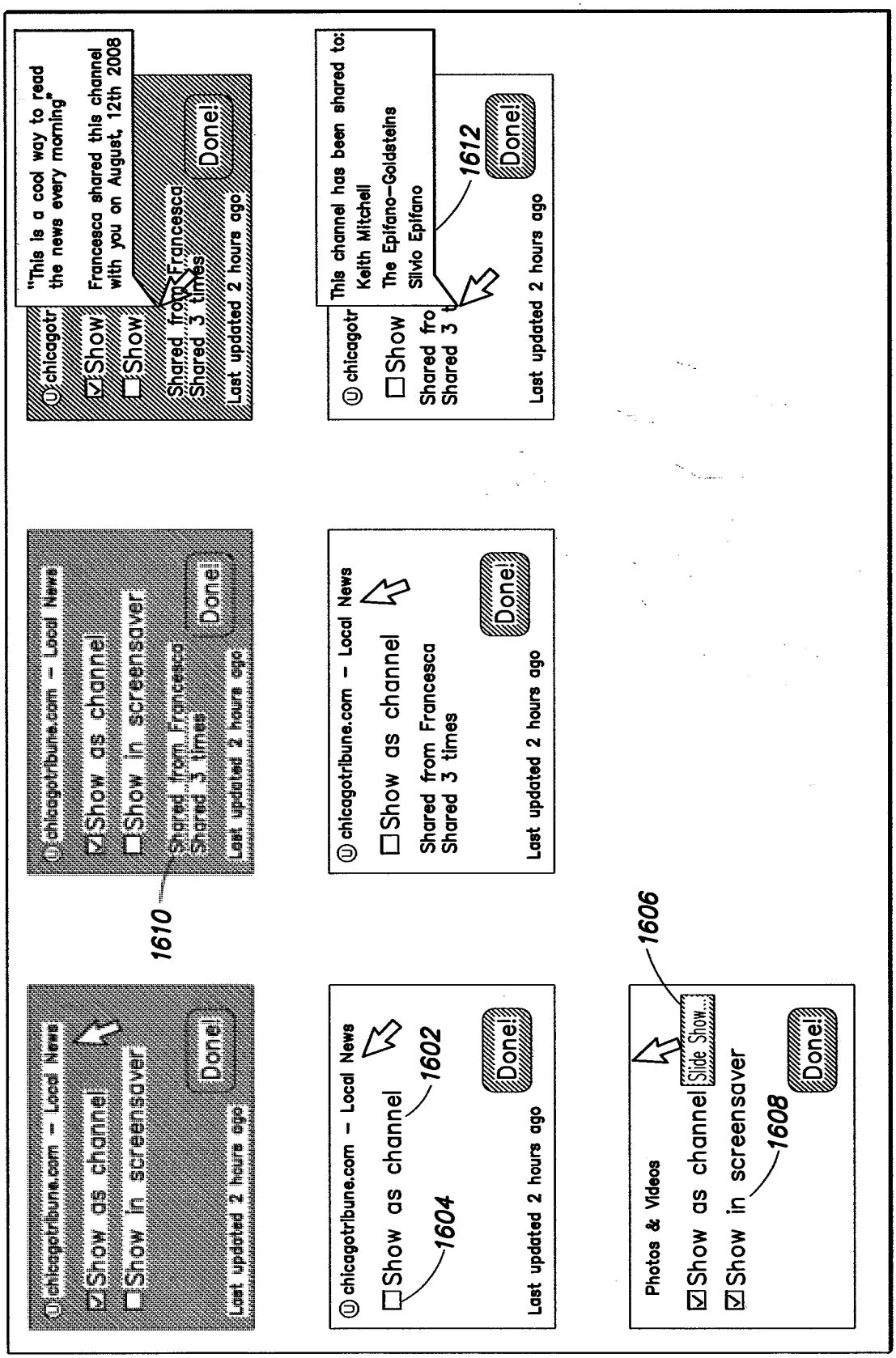

chicagotribune.com – Local News
Show as channel
Show in screensaver
Done!
Last updated 2 hours ago
1602
1604
1606
1608
1610
1612
Photos & Videos
Slide Show
"This is a cool way to read the news every morning"
Francesca shared this channel with you on August, 12th 2008
Shared from Francesca
Shared 3 times
This channel has been shared to:
Keith Mitchell
The Epifano–Goldsteins
Silvio Epifano

FIG. 16

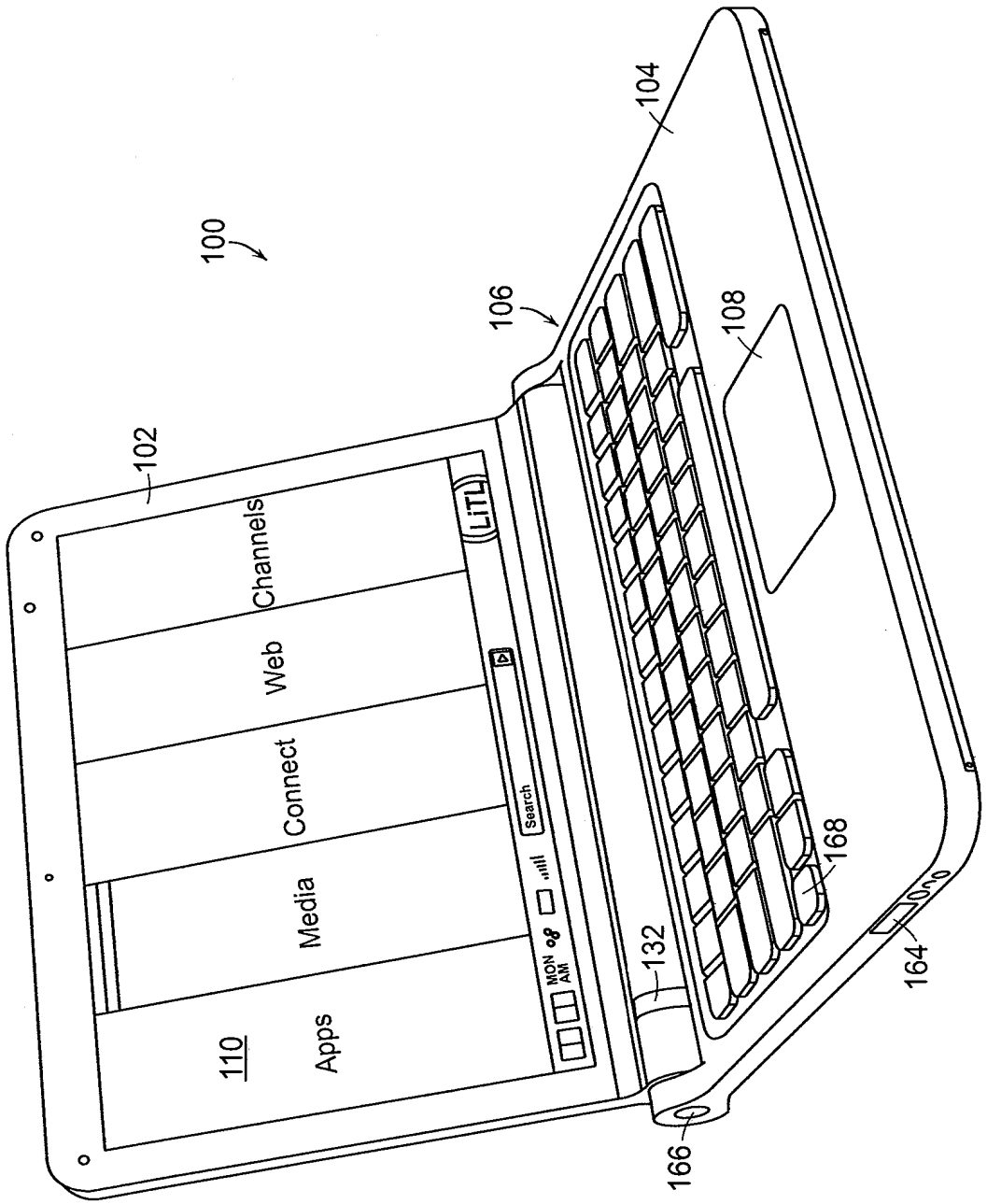

100
102
104
106
108
110
Apps
Media
Connect
Web
Channels
LiTL
Search
MON
AM
132
164
166
168

FIG. 17

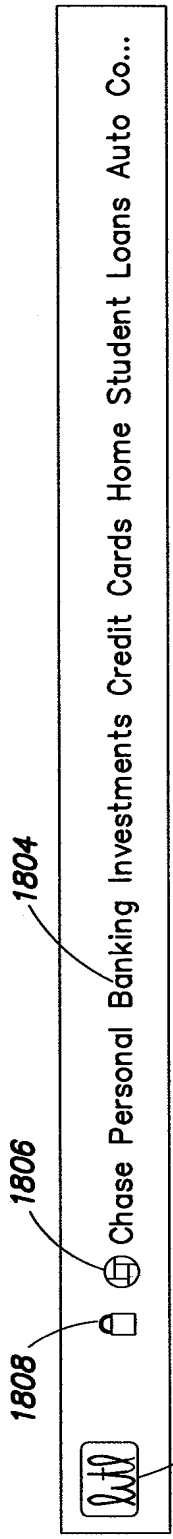


FIG. 18A

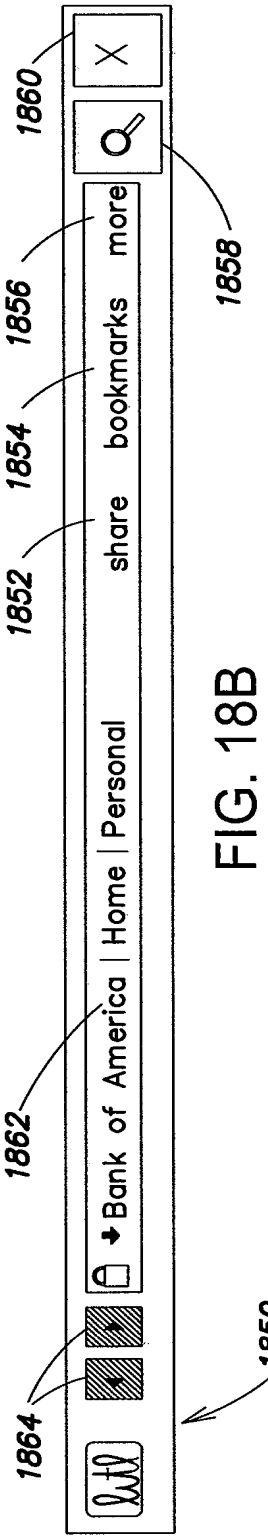


FIG. 18B

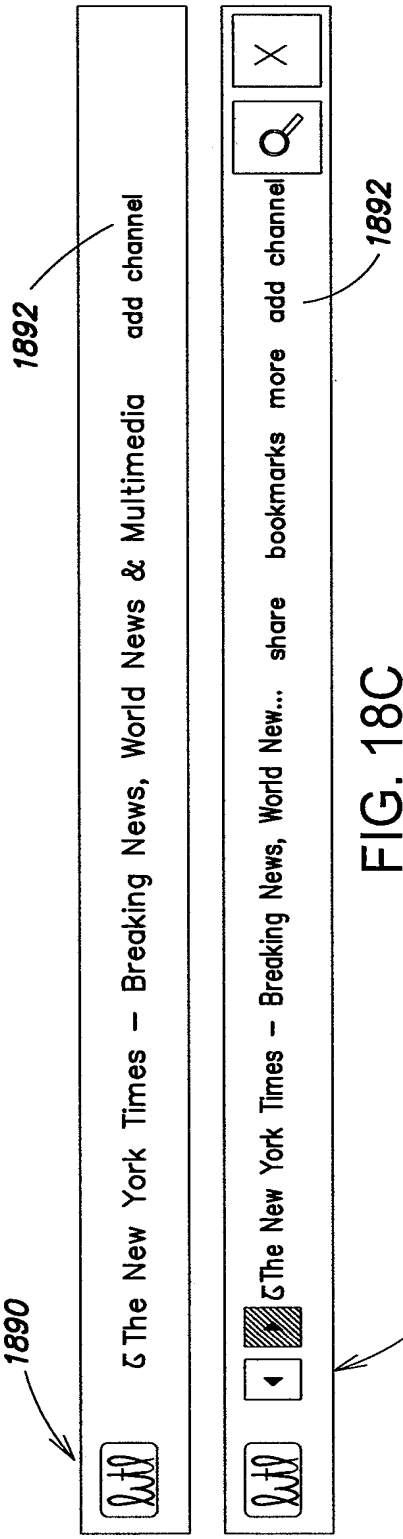


FIG. 18C

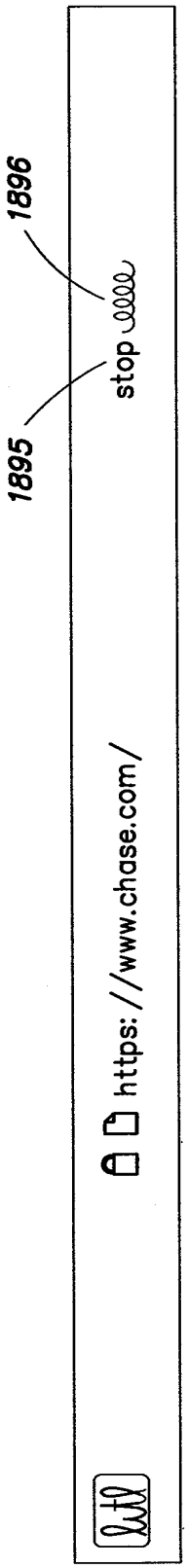


FIG. 18D

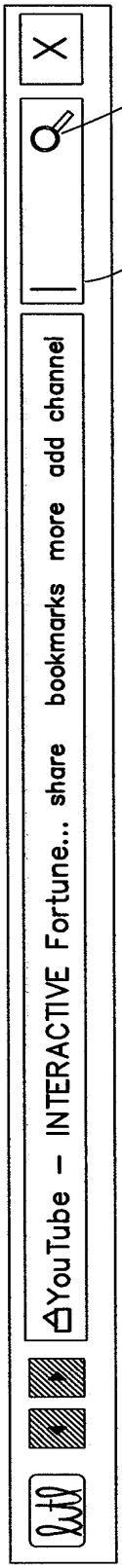


FIG. 18E

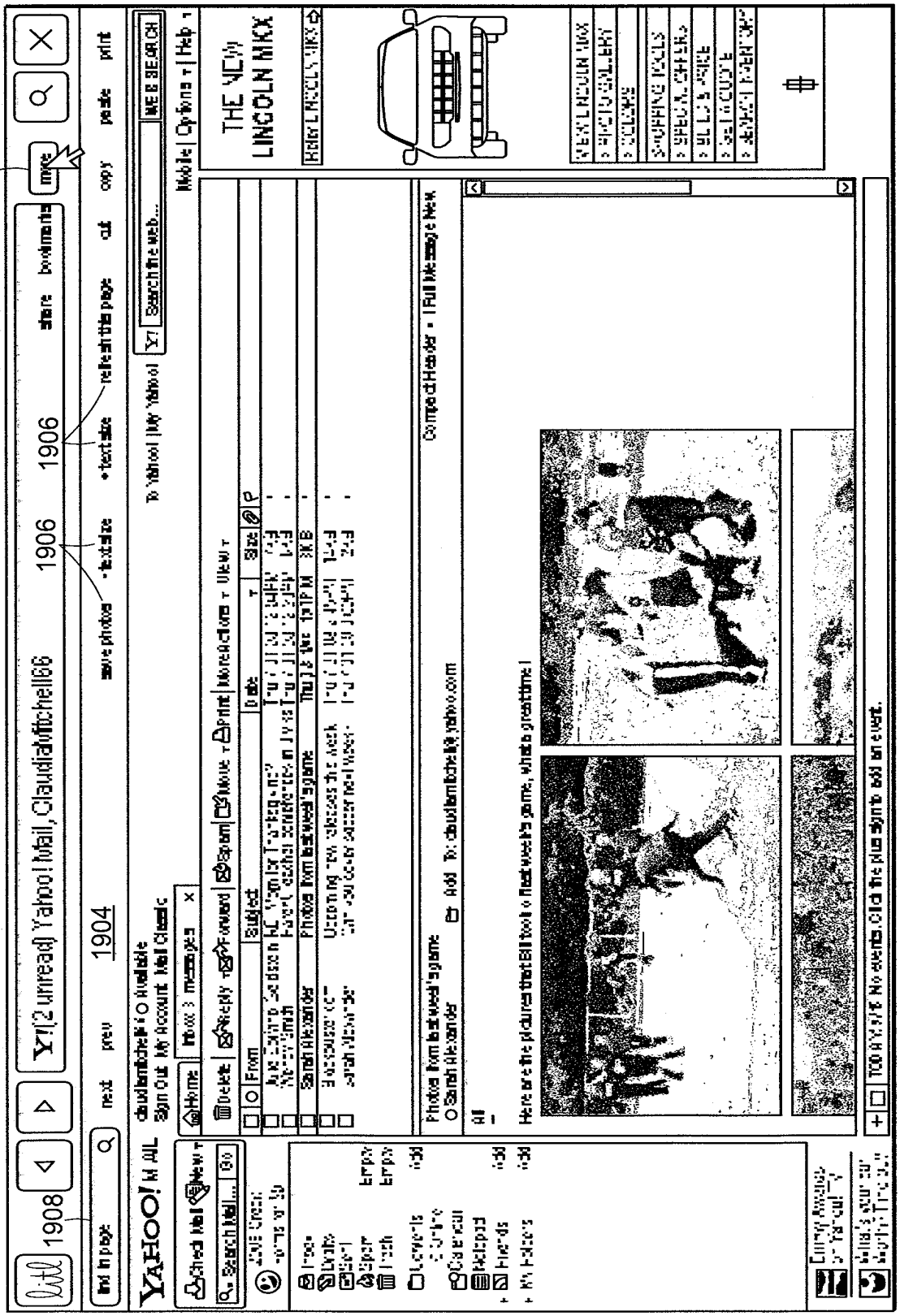


FIG. 19

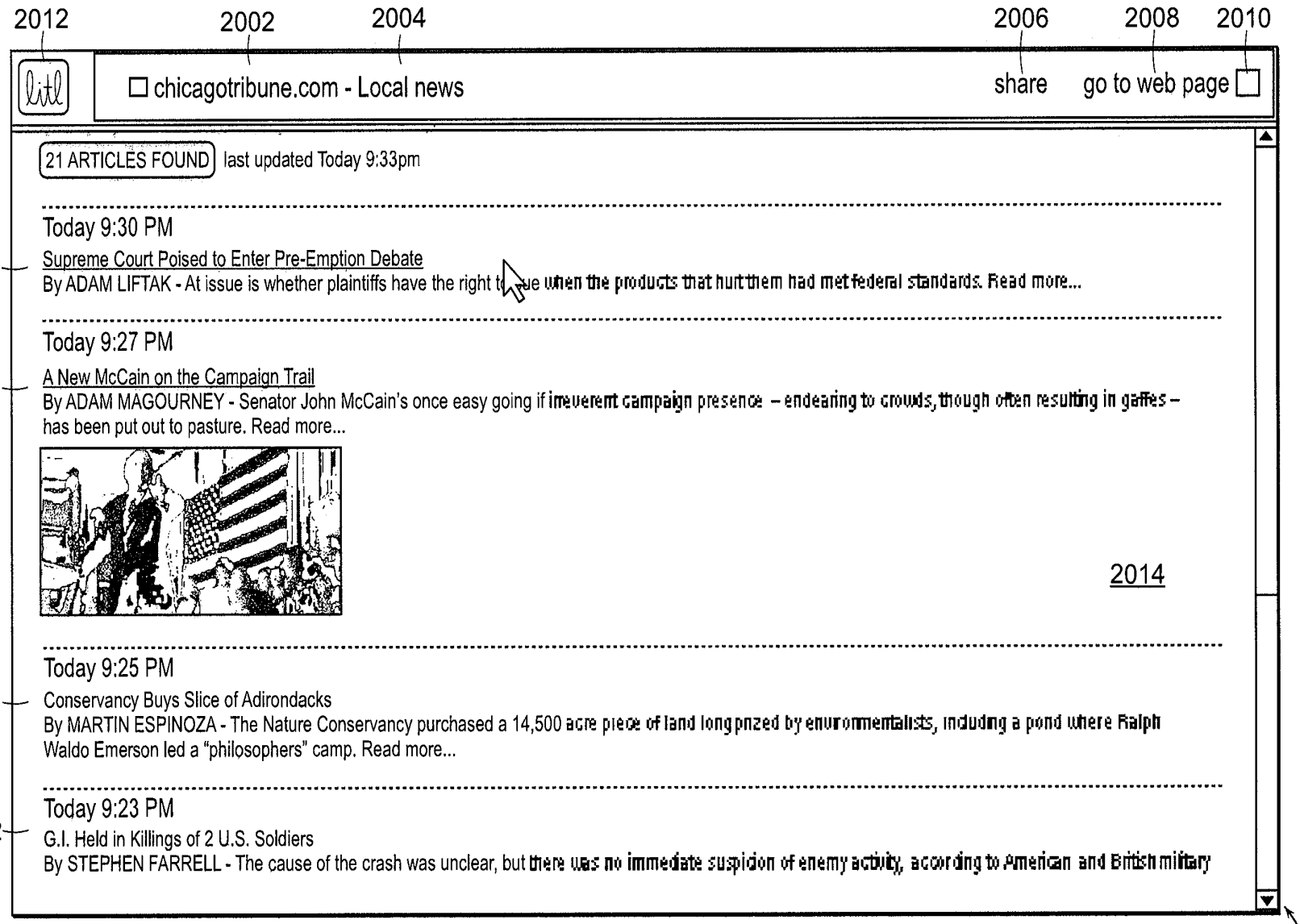

2012
2002
2004
2006
2008
2010
litl
chicagotribune.com - Local news
share
go to web page
21 ARTICLES FOUND
last updated Today 9:33pm
Today 9:30 PM
2016
Supreme Court Poised to Enter Pre-Emption Debate
By ADAM LIFTAK - At issue is whether plaintiffs have the right to sue when the products that hurt them had met federal standards. Read more...
Today 9:27 PM
2018
A New McCain on the Campaign Trail
By ADAM MAGOURNEY - Senator John McCain's once easy going if irreverent campaign presence – endearing to crowds, though often resulting in gaffes – has been put out to pasture. Read more...
2014
Today 9:25 PM
2020
Conservancy Buys Slice of Adirondacks
By MARTIN ESPINOZA - The Nature Conservancy purchased a 14,500 acre piece of land long prized by environmentalists, including a pond where Ralph Waldo Emerson led a "philosophers" camp. Read more...
Today 9:23 PM
2022
G.I. Held in Killings of 2 U.S. Soldiers
By STEPHEN FARRELL - The cause of the crash was unclear, but there was no immediate suspicion of enemy activity, according to American and British military
2000

FIG. 20A

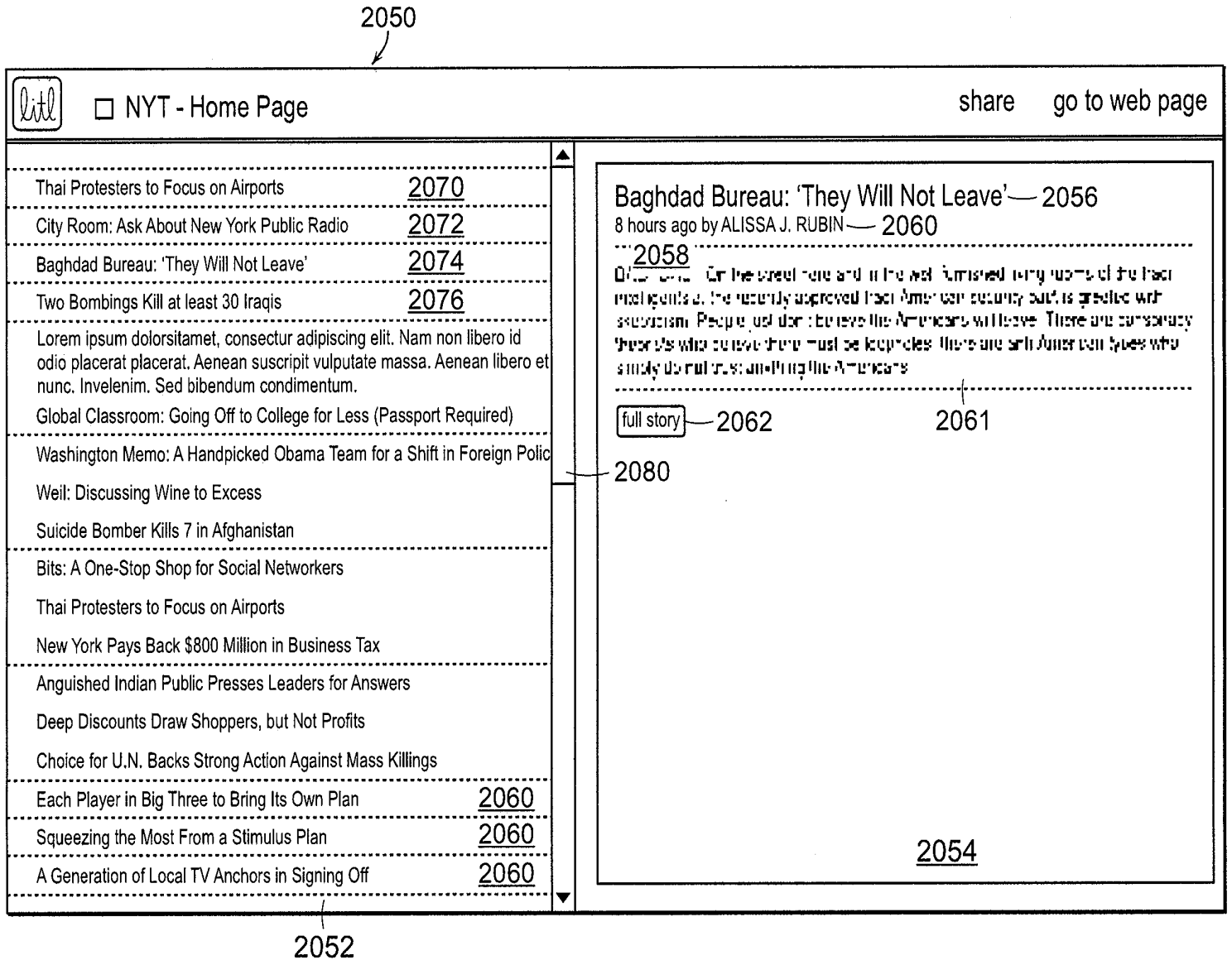

2050
NYT - Home Page
share
go to web page
Thai Protesters to Focus on Airports 2070
City Room: Ask About New York Public Radio 2072
Baghdad Bureau: 'They Will Not Leave' 2074
Two Bombings Kill at least 30 Iraqis 2076
Lorem ipsum dolorsitamet, consectur adipiscing elit. Nam non libero id odio placerat placerat. Aenean suscripit vulputate massa. Aenean libero et nunc. Invelenim. Sed bibendum condimentum.
Global Classroom: Going Off to College for Less (Passport Required)
Washington Memo: A Handpicked Obama Team for a Shift in Foreign Polic
Weil: Discussing Wine to Excess
Suicide Bomber Kills 7 in Afghanistan
Bits: A One-Stop Shop for Social Networkers
Thai Protesters to Focus on Airports
New York Pays Back $800 Million in Business Tax
Anguished Indian Public Presses Leaders for Answers
Deep Discounts Draw Shoppers, but Not Profits
Choice for U.N. Backs Strong Action Against Mass Killings
Each Player in Big Three to Bring Its Own Plan 2060
Squeezing the Most From a Stimulus Plan 2060
A Generation of Local TV Anchors in Signing Off 2060
2052
Baghdad Bureau: 'They Will Not Leave' 2056
8 hours ago by ALISSA J. RUBIN 2060
2058
full story 2062
2061
2080
2054

FIG. 20B

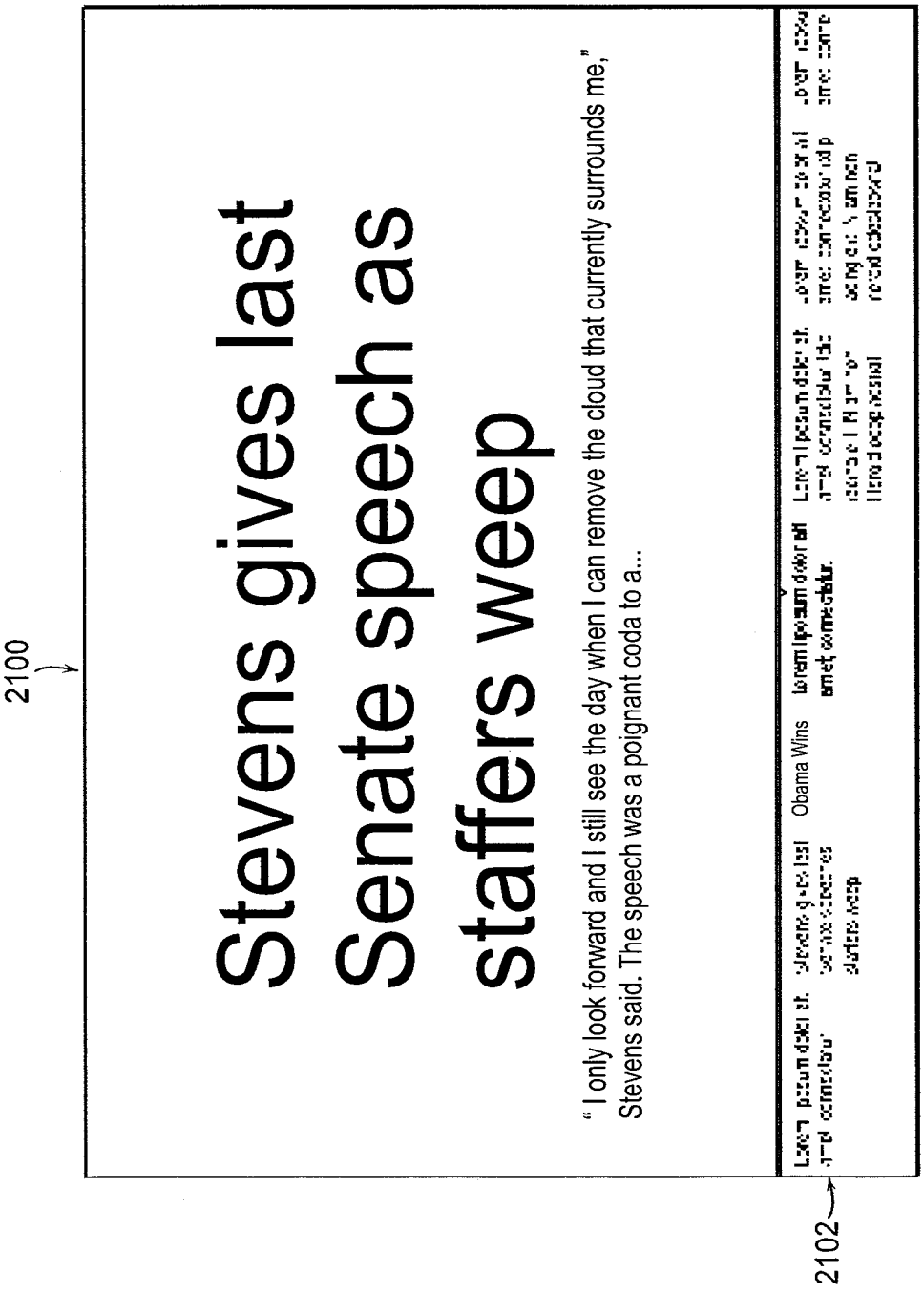

2100
Stevens gives last Senate speech as staffers weep
" I only look forward and I still see the day when I can remove the cloud that currently surrounds me," Stevens said. The speech was a poignant coda to a...
2102

FIG. 21

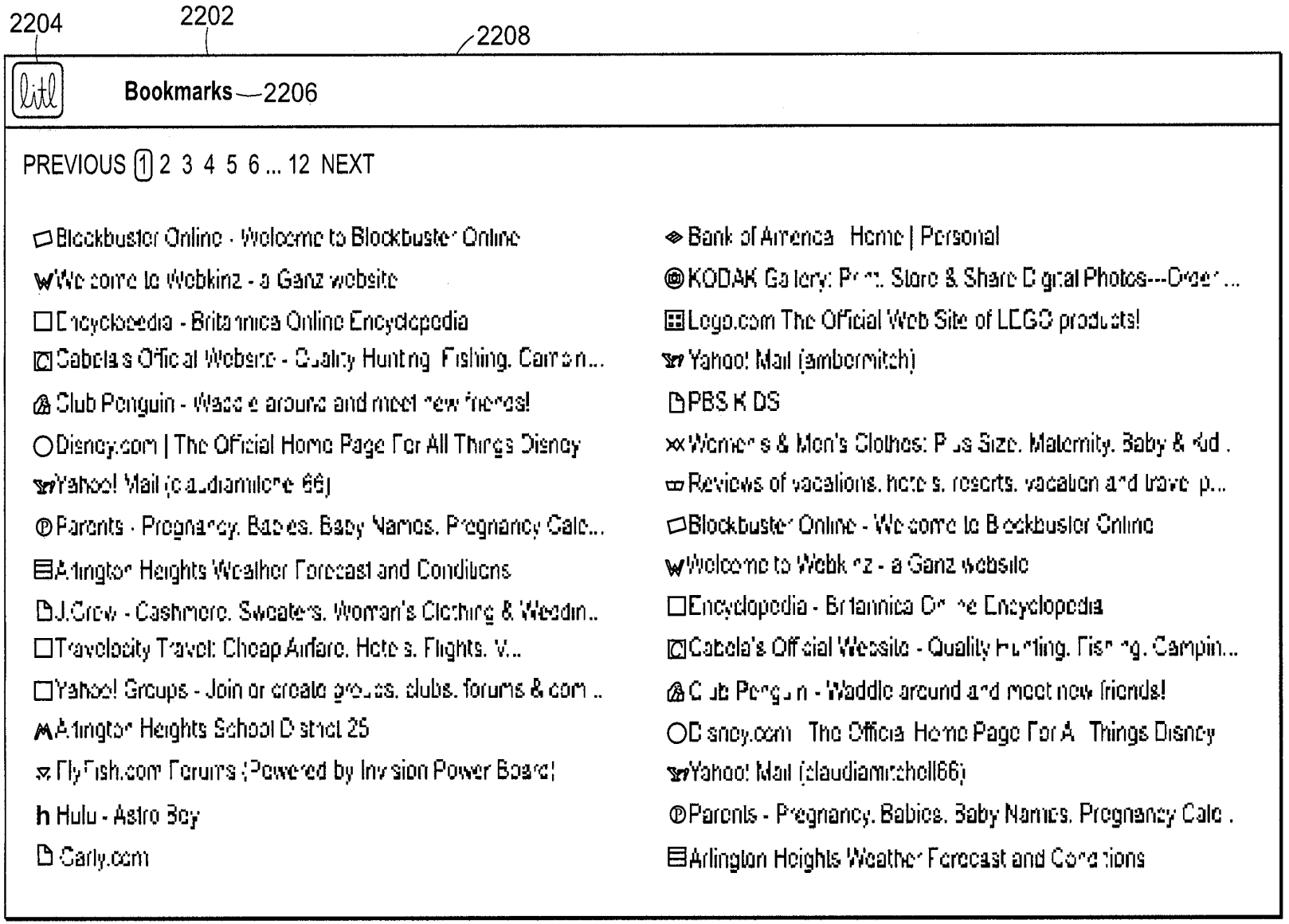

2204
2202
2208
Bookmarks
2206
PREVIOUS 1 2 3 4 5 6 ... 12 NEXT
Blockbuster Online - Welcome to Blockbuster Online
Welcome to Webkinz - a Ganz website
Encyclopedia - Britannica Online Encyclopedia
Cabela's Official Website - Quality Hunting, Fishing, Camping...
Club Penguin - Waddle around and meet new friends!
Disney.com | The Official Home Page For All Things Disney
Yahoo! Mail (claudiamitchell66)
Parents - Pregnancy, Babies, Baby Names, Pregnancy Calc...
Arlington Heights Weather Forecast and Conditions
J.Crew - Cashmere, Sweaters, Woman's Clothing & Wedding...
Travelocity Travel: Cheap Airfare, Hotels, Flights, V...
Yahoo! Groups - Join or create groups, clubs, forums & com...
Arlington Heights School District 25
FlyFish.com Forums (Powered by Invision Power Board)
Hulu - Astro Boy
Carly.com
Bank of America - Home | Personal
KODAK Gallery: Print, Store & Share Digital Photos---Order...
Lego.com The Official Web Site of LEGO products!
Yahoo! Mail (ambermitch)
PBS KIDS
Women's & Men's Clothes: Plus Size, Maternity, Baby & Kid...
Reviews of vacations, hotels, resorts, vacation and travel p...
Blockbuster Online - Welcome to Blockbuster Online
Welcome to Webkinz - a Ganz website
Encyclopedia - Britannica Online Encyclopedia
Cabela's Official Website - Quality Hunting, Fishing, Campin...
Club Penguin - Waddle around and meet new friends!
Disney.com - The Official Home Page For All Things Disney
Yahoo! Mail (claudiamitchell66)
Parents - Pregnancy, Babies, Baby Names, Pregnancy Calc...
Arlington Heights Weather Forecast and Conditions

FIG. 22


2302
2310
2308
2306
2304
Video Messages 1
Mitchell Family
Today at 2:12 PM
Weather: Milan, Italy. Light rain with thunder, 72°F
Turin
78°
Venezia
International Herald Tribune
Bush faults China over rights and detentions
THU AUGUST 7, 2008 / 7:30 PM
The White House on Wednesday released critical re

FIG. 23

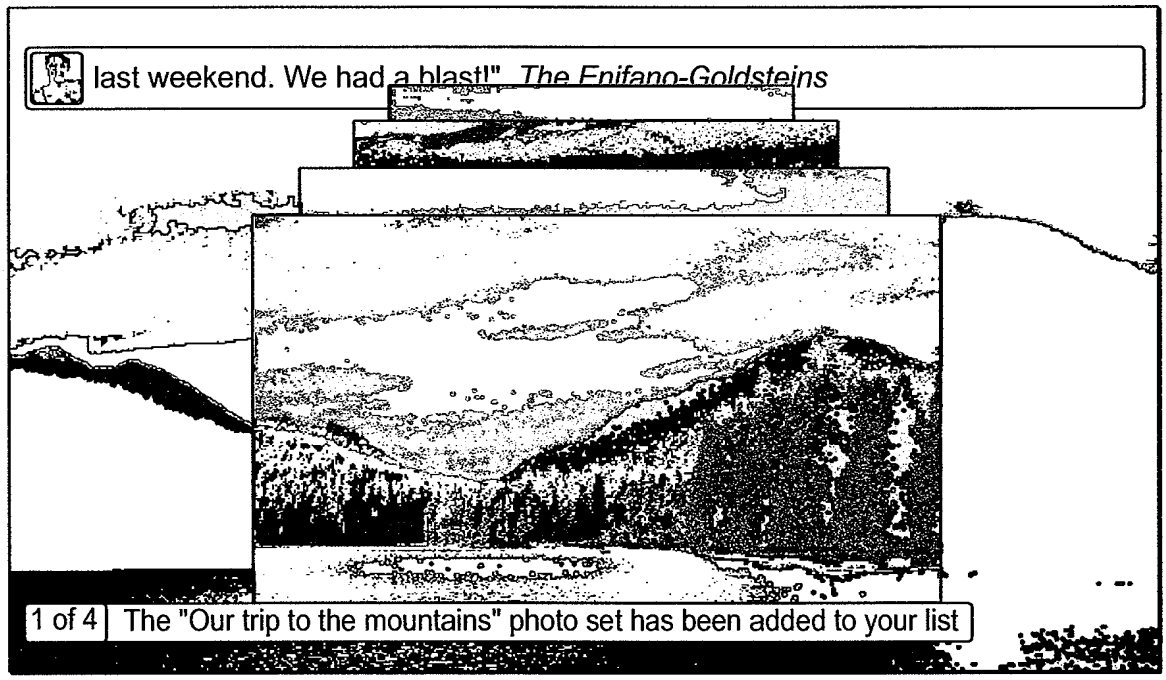

last weekend. We had a blast!" The Enifano-Goldsteins
1 of 4
The "Our trip to the mountains" photo set has been added to your list

FIG. 24

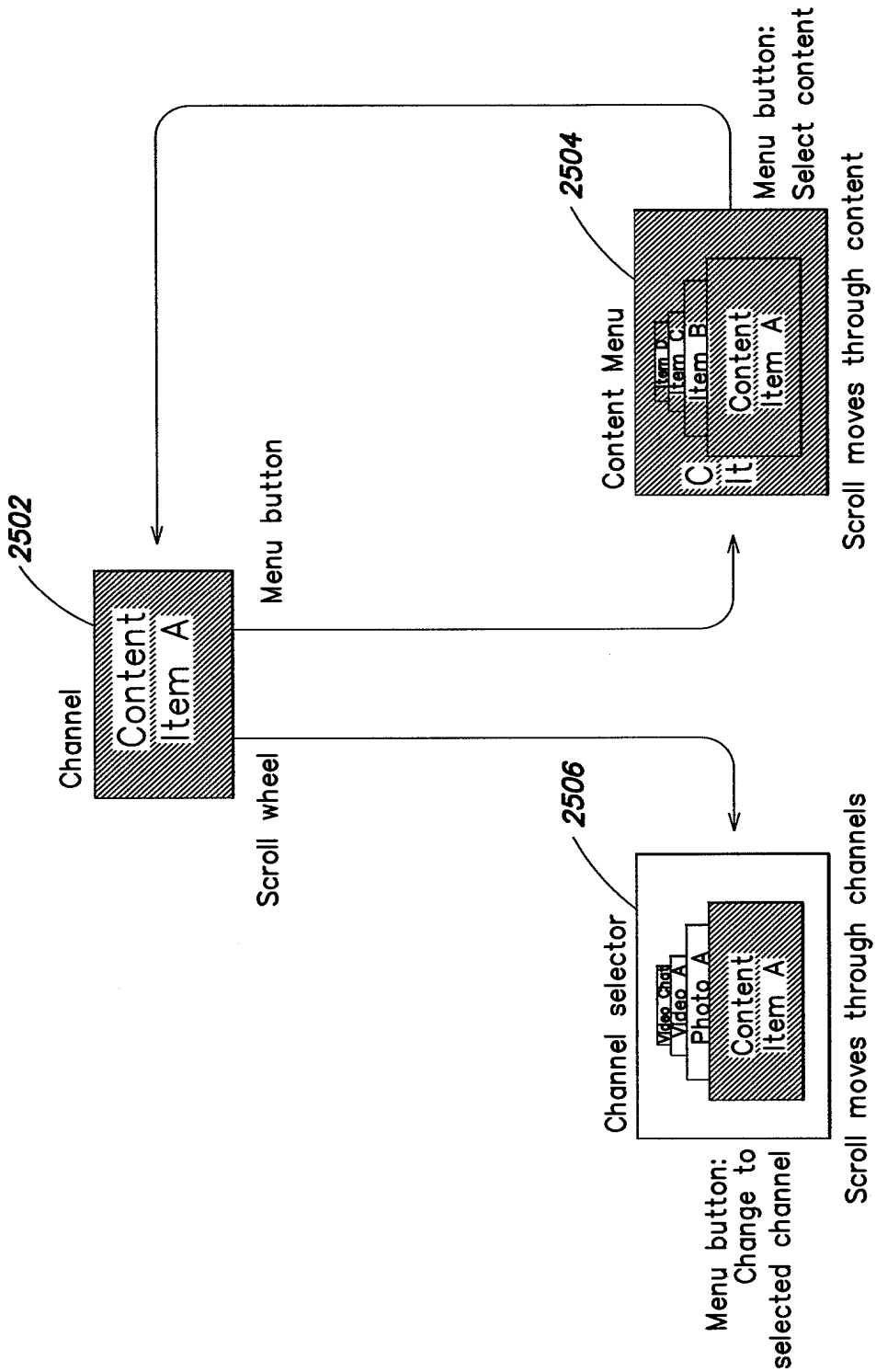

2502
Channel
Content Item A
Menu button
Scroll wheel
2504
Content Menu
Item D
Item C
Item B
Content Item A
Menu button: Select content
Scroll moves through content
2506
Channel selector
Video Chat
Video A
Photo A
Content Item A
Menu button: Change to selected channel
Scroll moves through channels

FIG. 25A

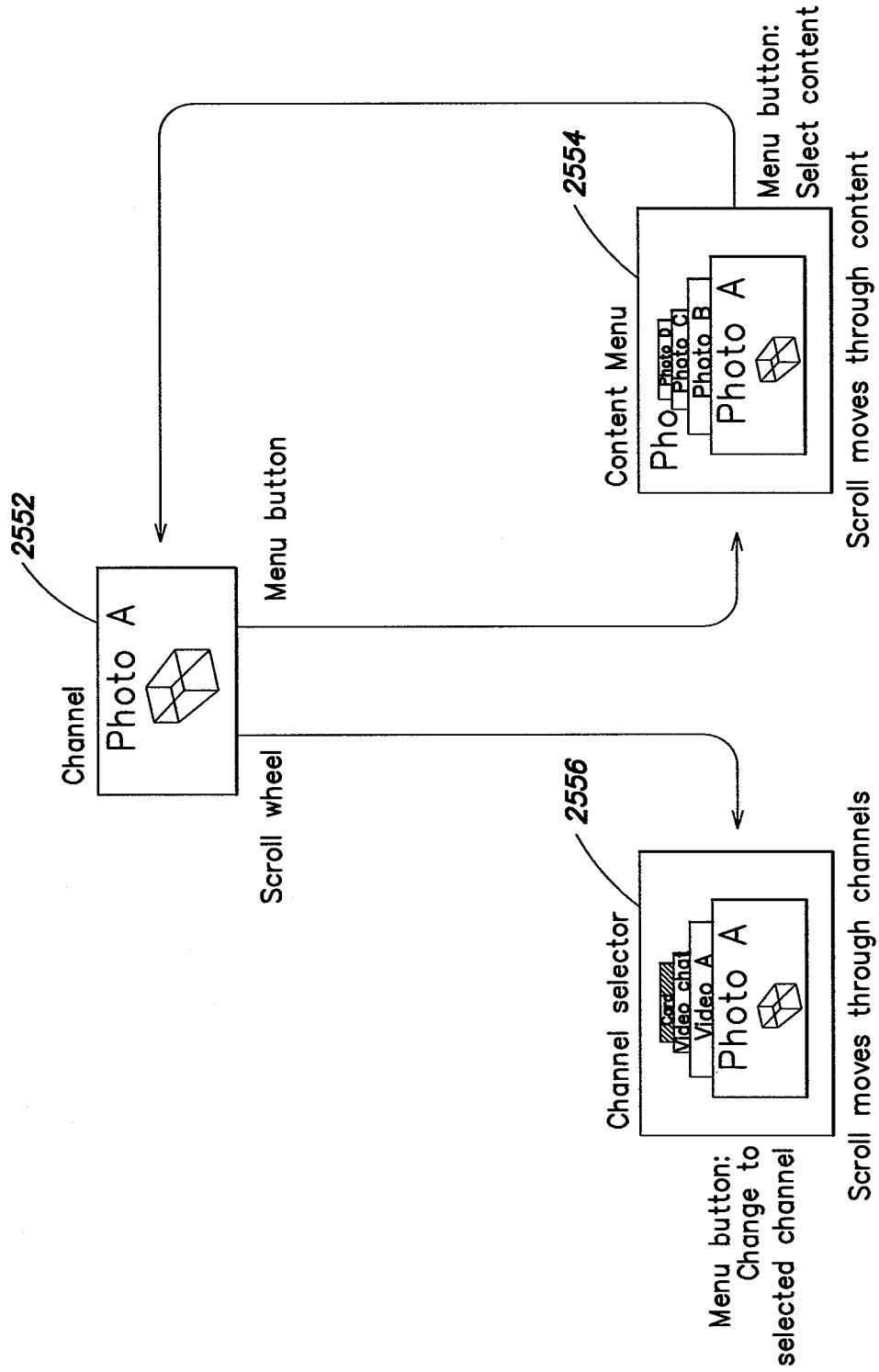

2552
Channel
Photo A
Menu button
Scroll wheel
2554
Content Menu
Photo D
Photo C
Photo B
Photo A
Menu button:
Select content
Scroll moves through content
2556
Channel selector
Video chat
Video A
Photo A
Menu button:
Change to
selected channel
Scroll moves through channels

FIG. 25B

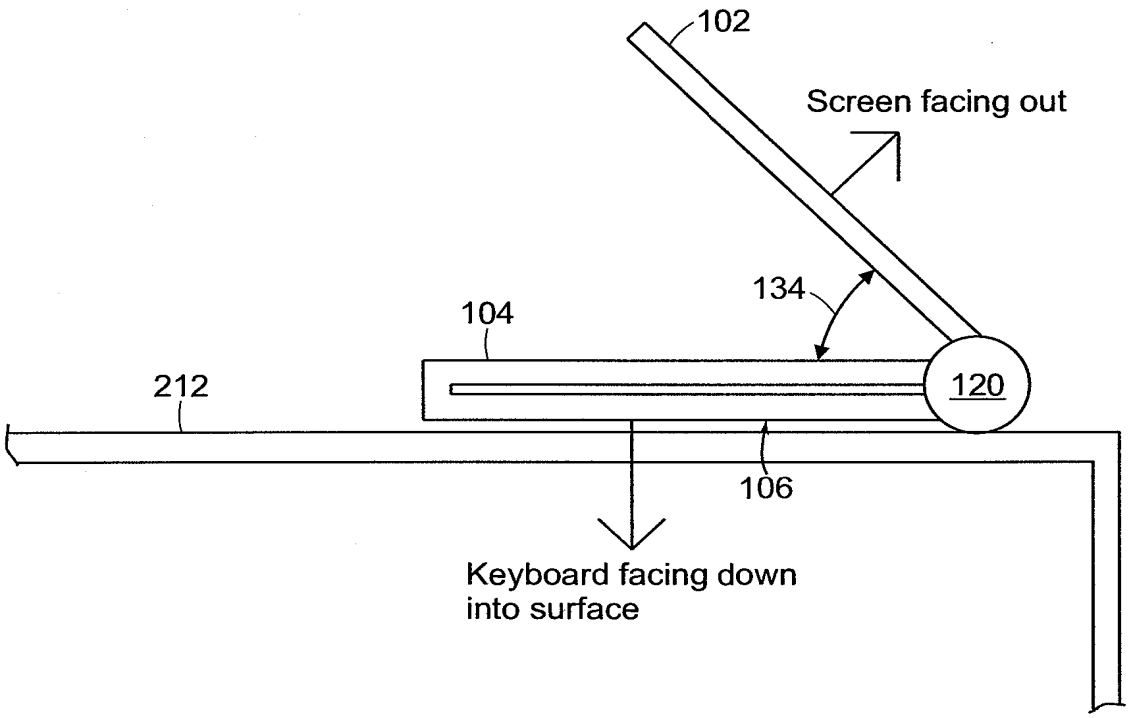

102
Screen facing out
134
104
212
120
106
Keyboard facing down
into surface

FIG. 26

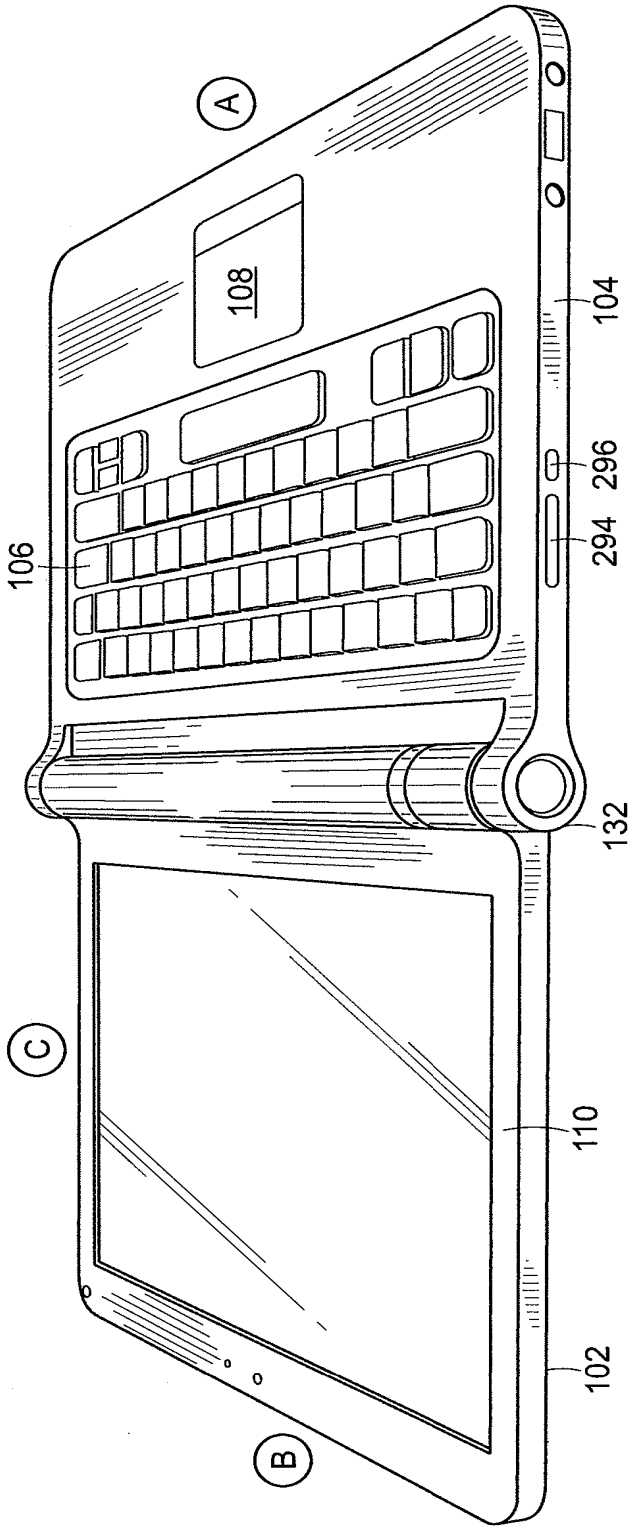


FIG. 27

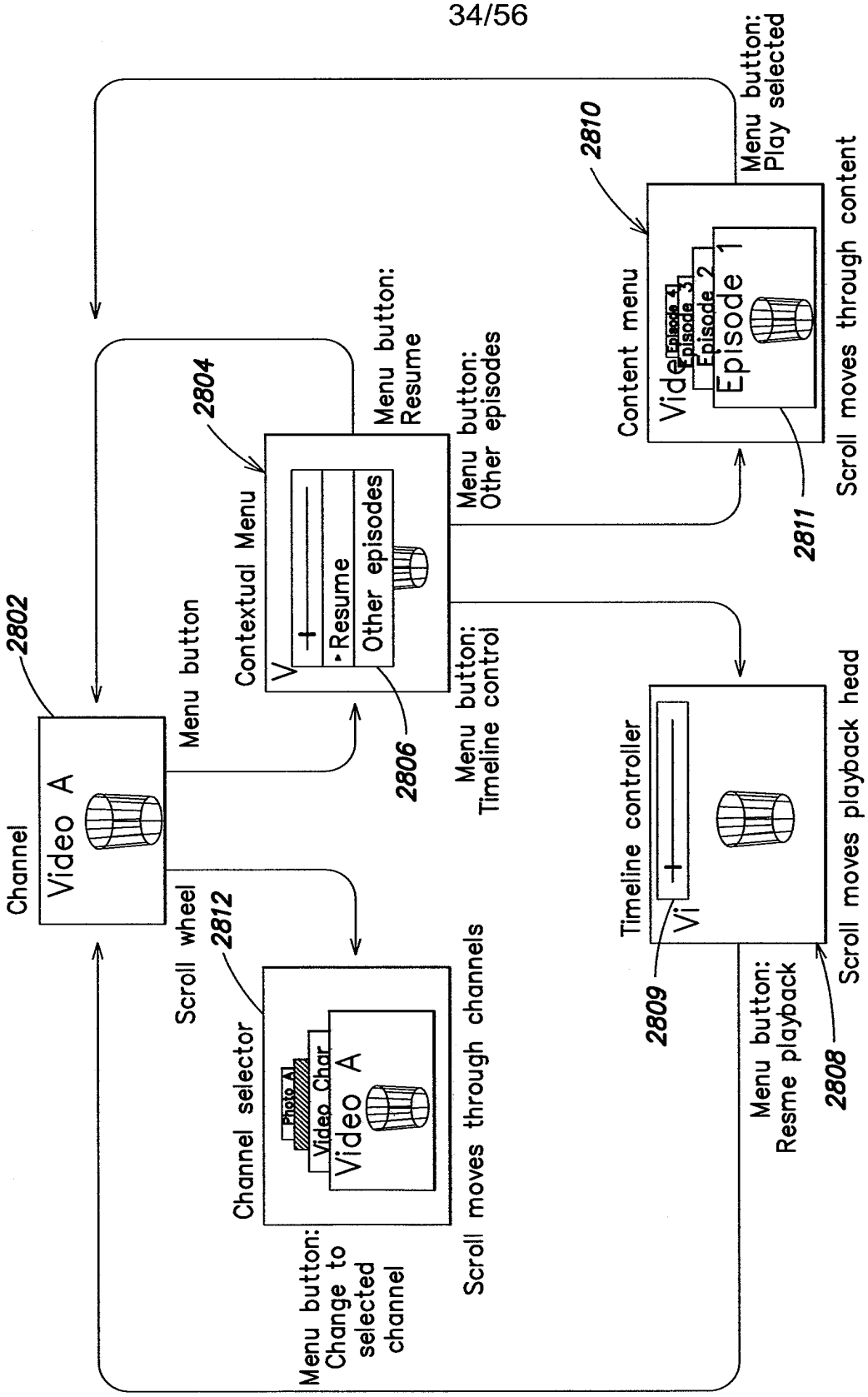

2802
Channel
Video A
Menu button
2804
Contextual Menu
Resume
Other episodes
Menu button:
Resume
Menu button:
Other episodes
2806
Menu button:
Timeline control
2810
Content menu
Episode 1
Menu button:
Play selected
2811
Scroll moves through content
Scroll wheel
2812
Channel selector
Video A
Menu button:
Change to
selected
channel
Scroll moves through channels
Timeline controller
2809
Menu button:
Resme playback
2808
Scroll moves playback head

FIG. 28

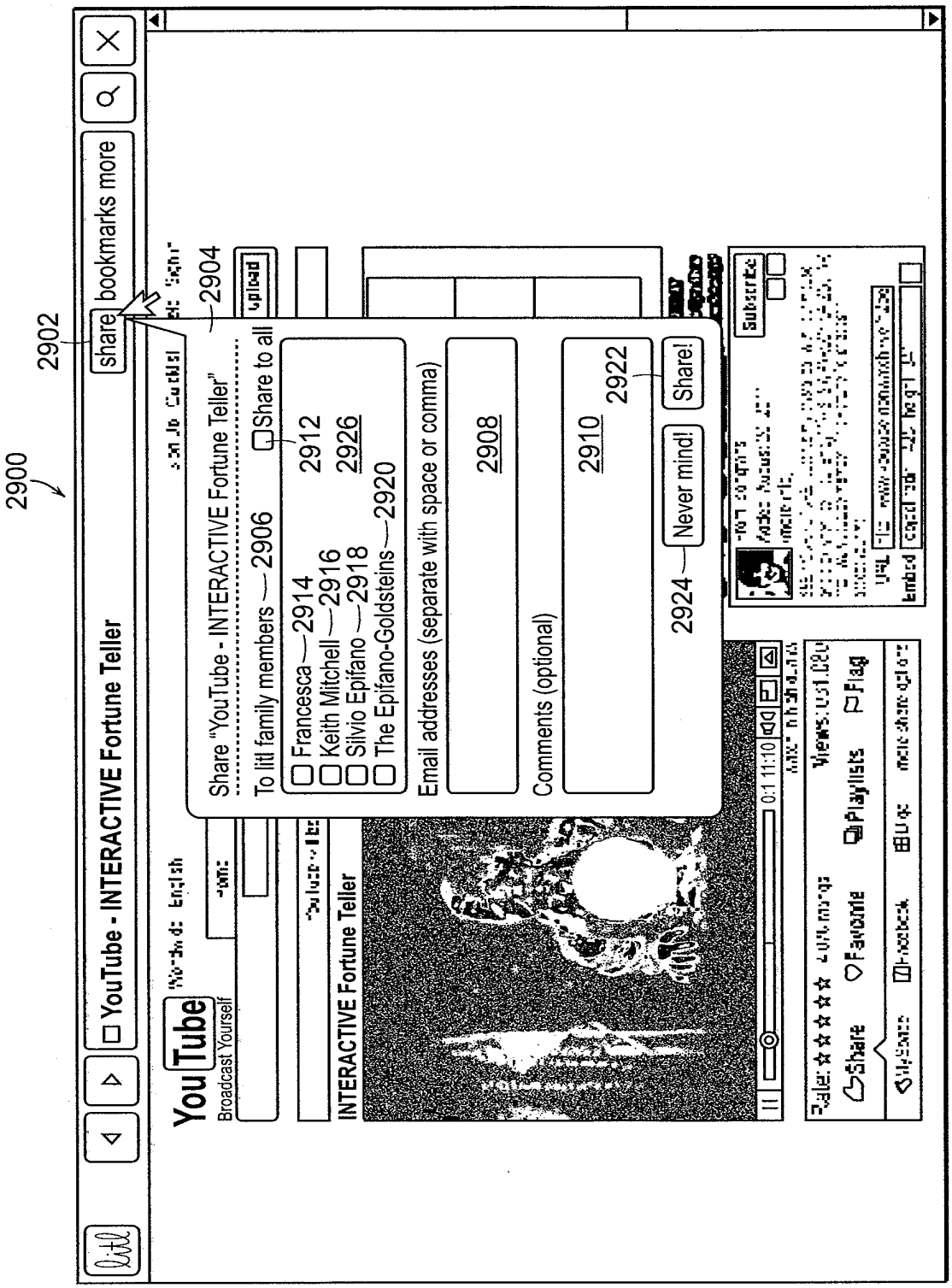

2900
2902
2904
YouTube - INTERACTIVE Fortune Teller
share
bookmarks more
Share "YouTube - INTERACTIVE Fortune Teller"
To litl family members
2906
Share to all
Francesca
2914
Keith Mitchell
2916
Silvio Epifano
2918
The Epifano-Goldsteins
2920
2912
2926
Email addresses (separate with space or comma)
2908
Comments (optional)
2910
2922
2924
Never mind!
Share!
INTERACTIVE Fortune Teller
Share
Favorite
Playlists
Flag
Subscribe

FIG. 29A

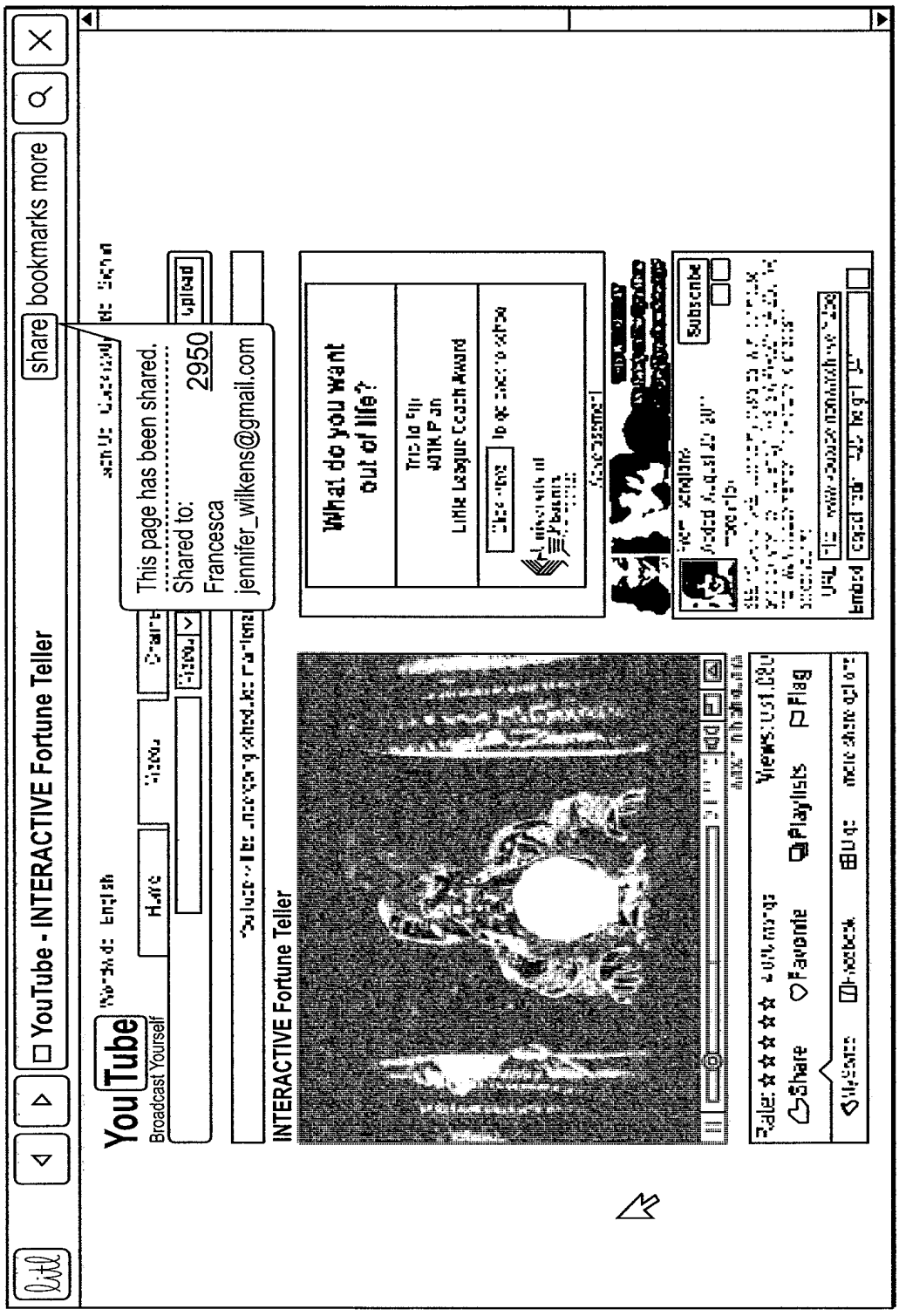

YouTube - INTERACTIVE Fortune Teller
share
bookmarks more
YouTube
Broadcast Yourself
This page has been shared.
Shared to:
Francesca
jennifer_wilkens@gmail.com
2950
INTERACTIVE Fortune Teller
What do you want out of life?
Share
Favorite
Playlists
Flag
Subscribe

FIG. 29B

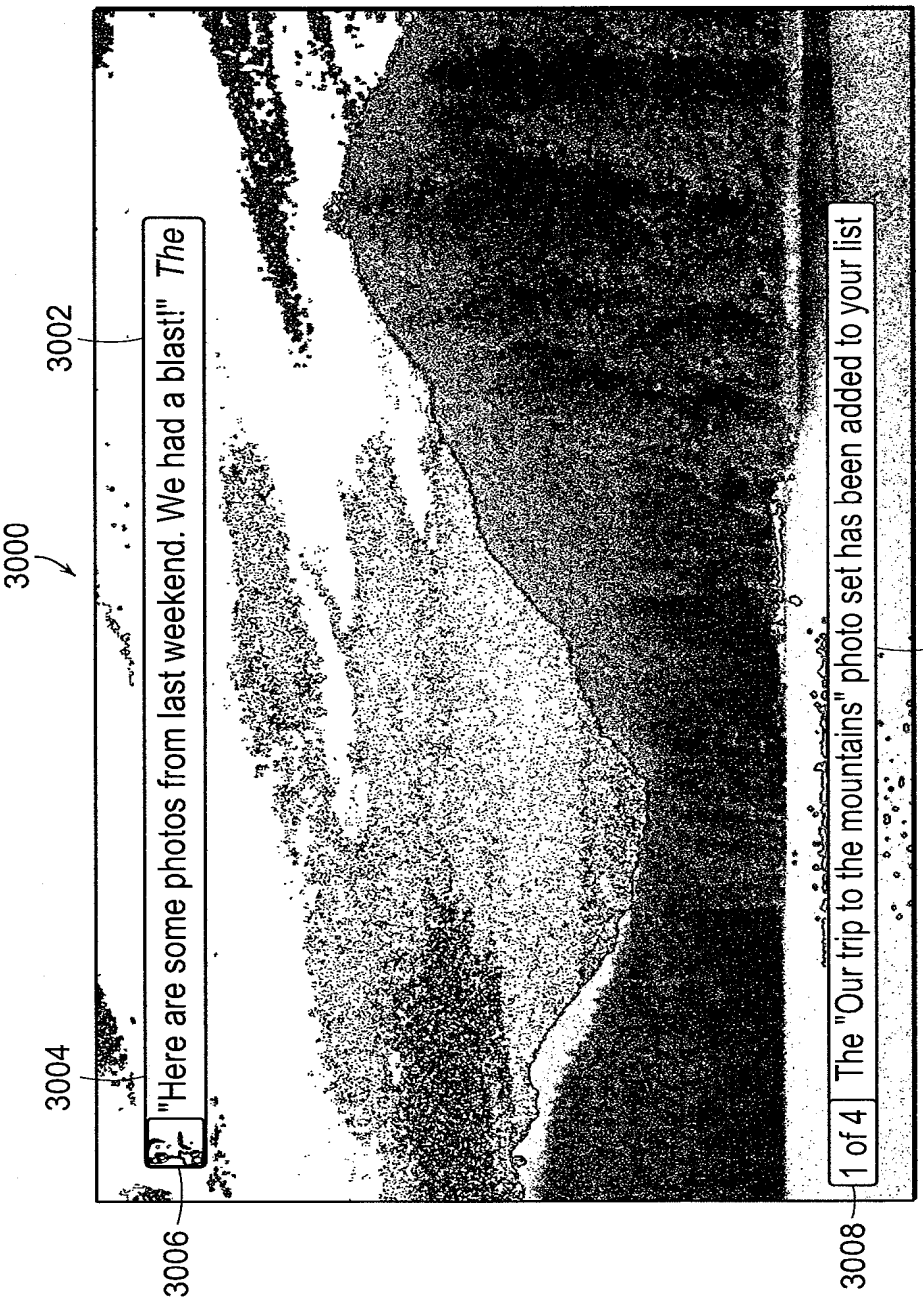

3000
3002
3004
"Here are some photos from last weekend. We had a blast!" The
3006
3008
1 of 4
The "Our trip to the mountains" photo set has been added to your list
3010

FIG. 30

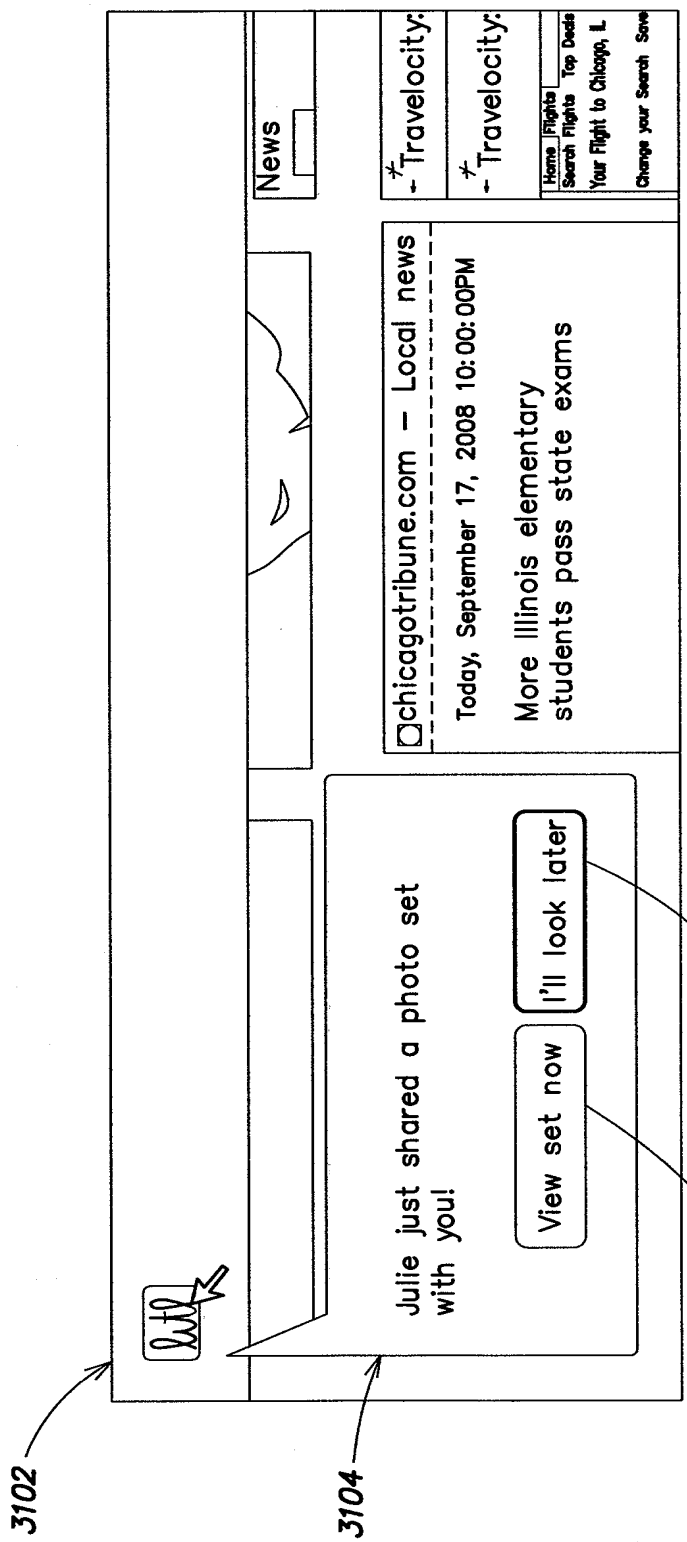

News
Travelocity:
Travelocity:
Home
Flights
Search Flights
Top Deals
Your Flight to Chicago, IL
Change your Search
chicagotribune.com – Local news
Today, September 17, 2008 10:00:00PM
More Illinois elementary students pass state exams
Julie just shared a photo set with you!
View set now
I'll look later
3102
3104
3106
3108

FIG. 31

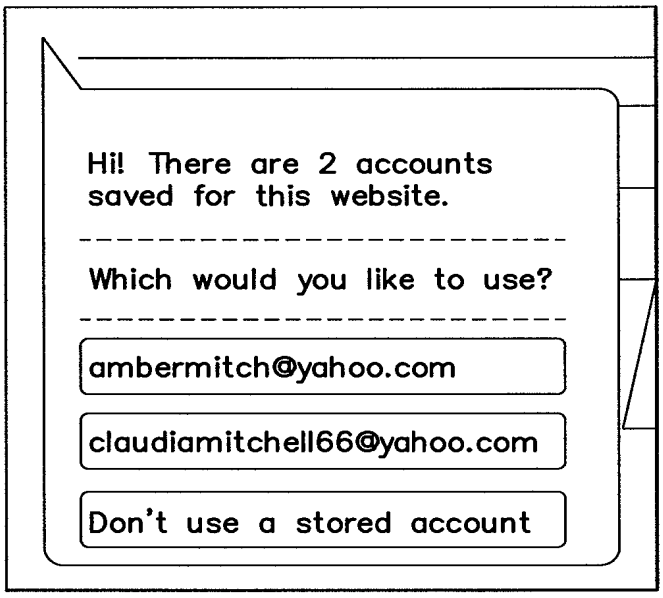

Hi! There are 2 accounts saved for this website.
Which would you like to use?
ambermitch@yahoo.com
claudiamitchell66@yahoo.com
Don't use a stored account

FIG. 32


3302
litl
chicagotribune.com
3304
2 channels and 1 web card have been shared to you.
Use the litl wheel to view the new channels. Return to litl home to view the web card.
View first item
I'll look later
3306
3308

FIG. 33

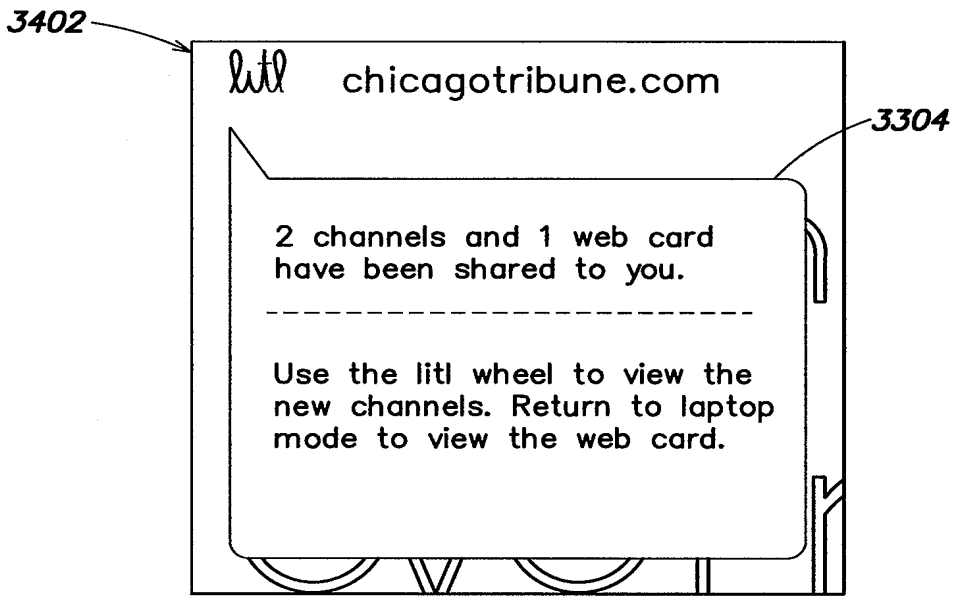

3402
litl
chicagotribune.com
3304
2 channels and 1 web card have been shared to you.
Use the litl wheel to view the new channels. Return to laptop mode to view the web card.

FIG. 34

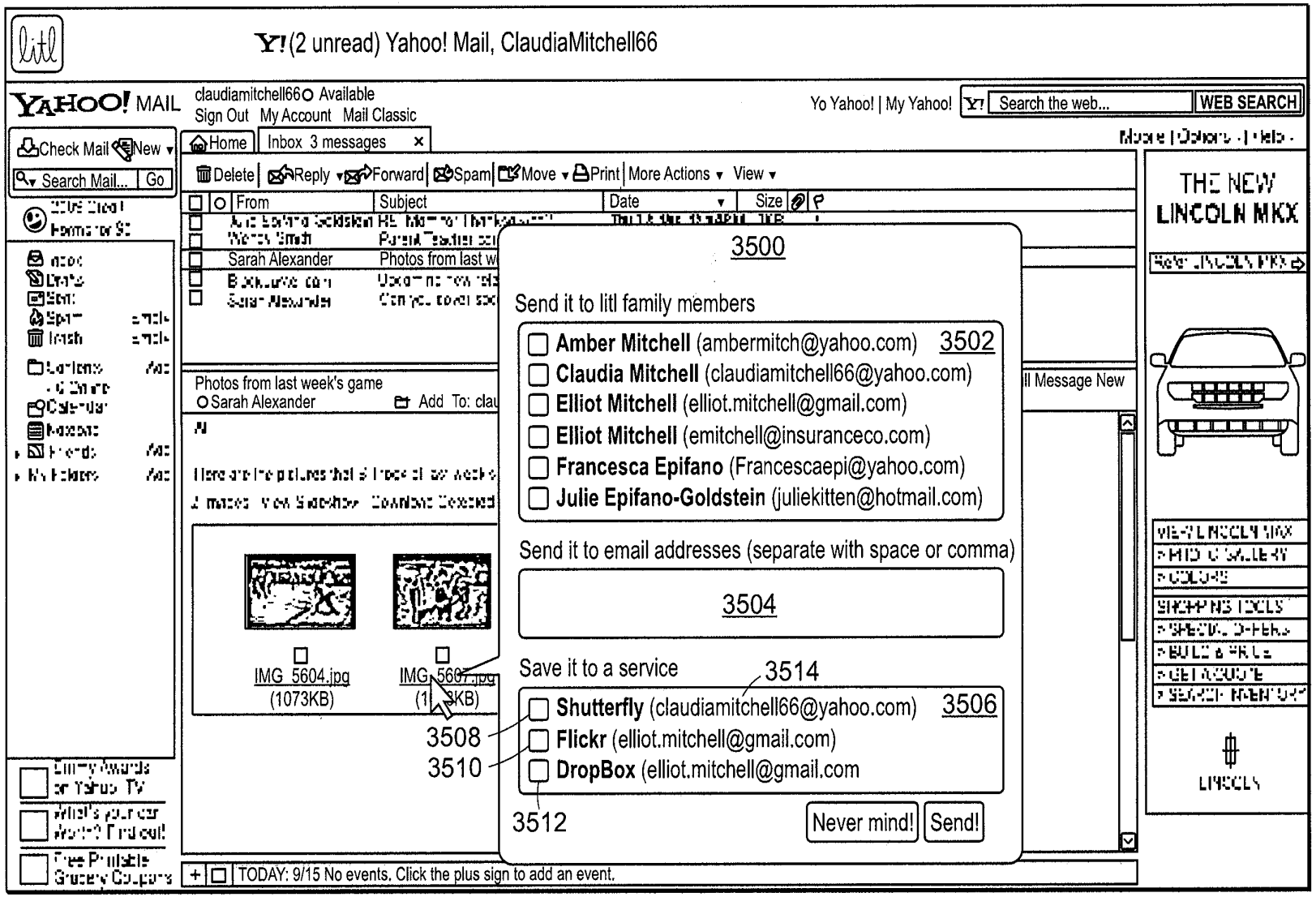

litl
Y! (2 unread) Yahoo! Mail, ClaudiaMitchell66
YAHOO! MAIL
claudiamitchell66 Available
Sign Out My Account Mail Classic
Yo Yahoo! | My Yahoo!
Search the web...
WEB SEARCH
Check Mail
New
Search Mail...
Go
Home
Inbox 3 messages
Delete
Reply
Forward
Spam
Move
Print
More Actions
View
From
Subject
Date
Size
Sarah Alexander
Photos from last w
Photos from last week's game
Sarah Alexander
Add To:
IMG_5604.jpg
(1073KB)
3500
Send it to litl family members
Amber Mitchell (ambermitch@yahoo.com)
3502
Claudia Mitchell (claudiamitchell66@yahoo.com)
Elliot Mitchell (elliot.mitchell@gmail.com)
Elliot Mitchell (emitchell@insuranceco.com)
Francesca Epifano (Francescaepi@yahoo.com)
Julie Epifano-Goldstein (juliekitten@hotmail.com)
Send it to email addresses (separate with space or comma)
3504
Save it to a service
3514
Shutterfly (claudiamitchell66@yahoo.com)
3506
Flickr (elliot.mitchell@gmail.com)
DropBox (elliot.mitchell@gmail.com
3508
3510
3512
Never mind!
Send!
THE NEW
LINCOLN MKX
TODAY: 9/15 No events. Click the plus sign to add an event.

FIG. 35

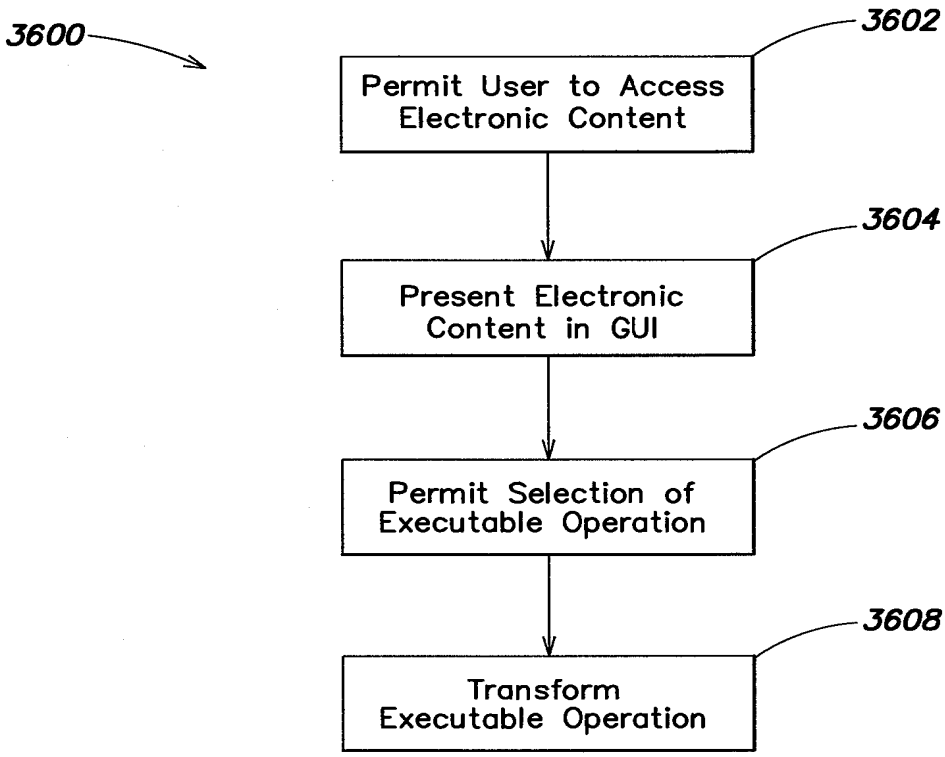

3600
3602
Permit User to Access Electronic Content
3604
Present Electronic Content in GUI
3606
Permit Selection of Executable Operation
3608
Transform Executable Operation

FIG. 36

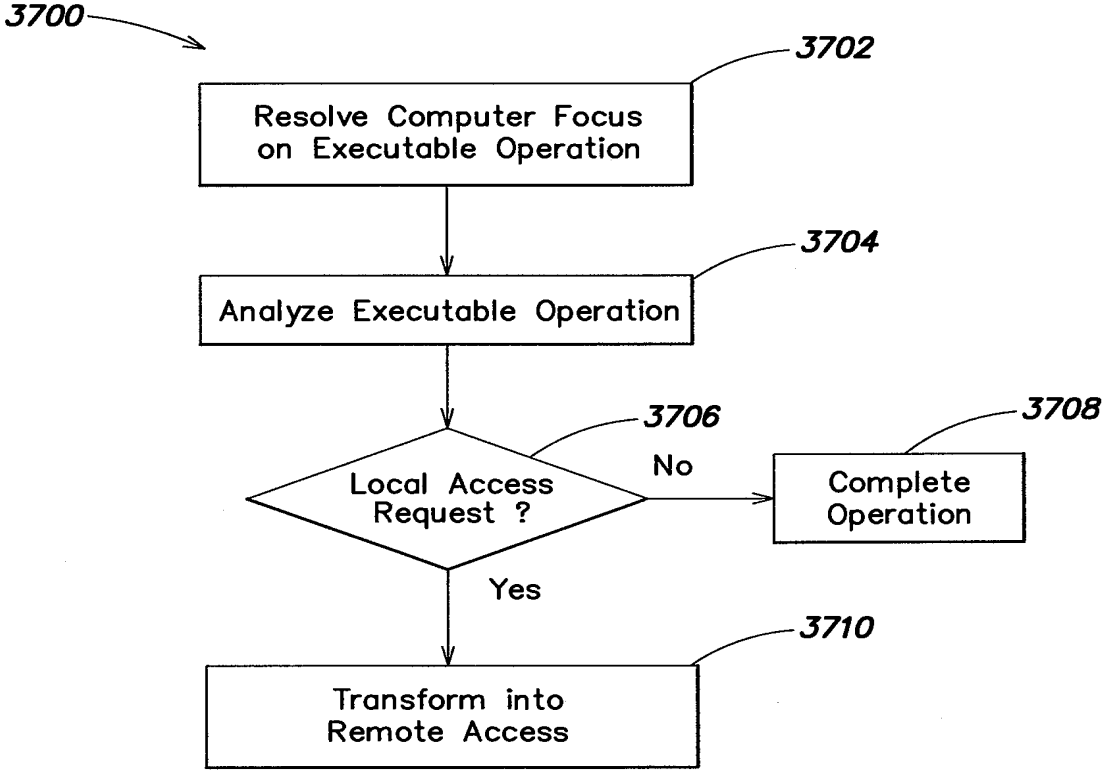

3700
3702
Resolve Computer Focus on Executable Operation
3704
Analyze Executable Operation
3706
Local Access Request ?
No
3708
Complete Operation
Yes
3710
Transform into Remote Access

FIG. 37

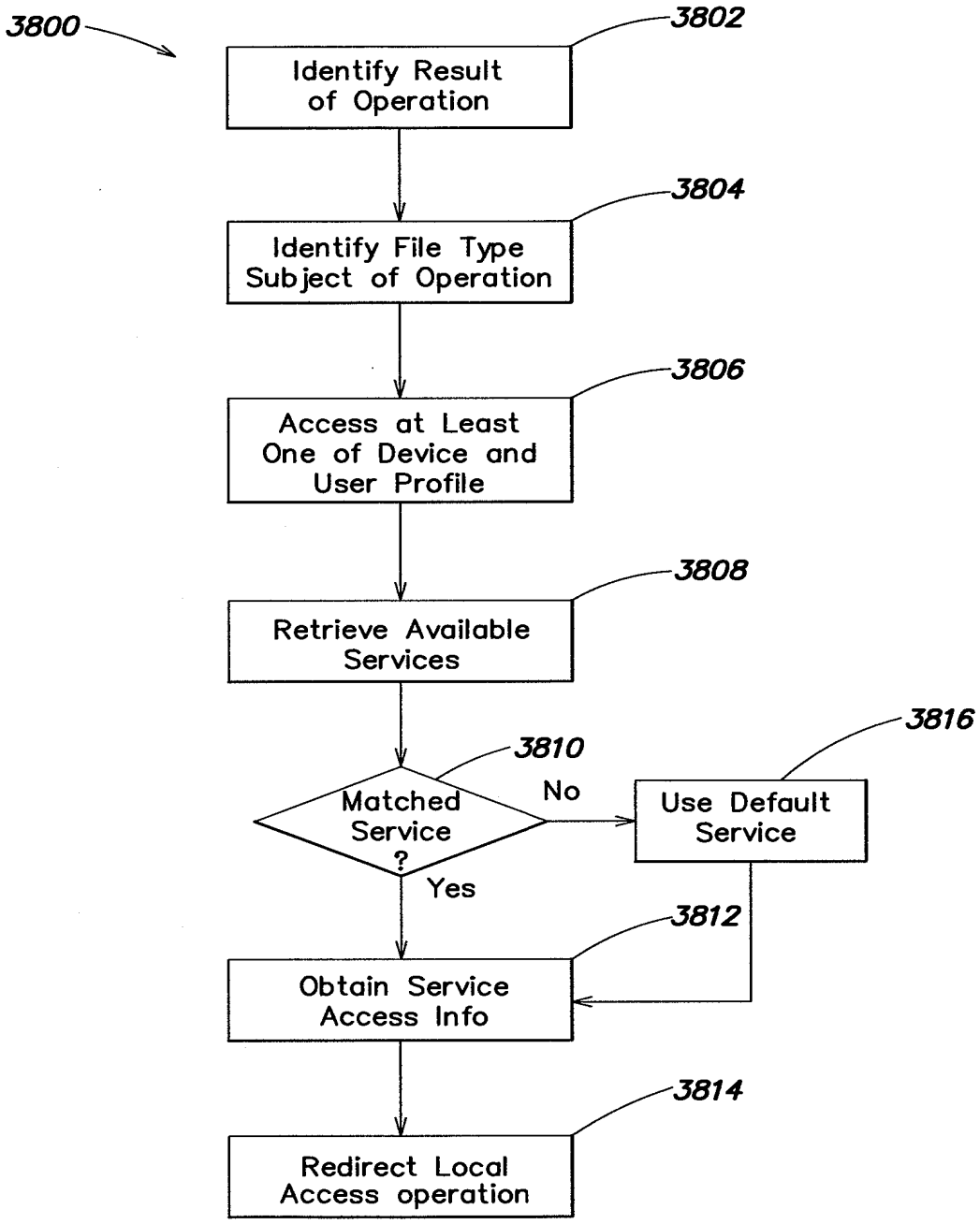

3800
3802
Identify Result of Operation
3804
Identify File Type Subject of Operation
3806
Access at Least One of Device and User Profile
3808
Retrieve Available Services
3810
Matched Service ?
No
3816
Use Default Service
Yes
3812
Obtain Service Access Info
3814
Redirect Local Access operation

FIG. 38

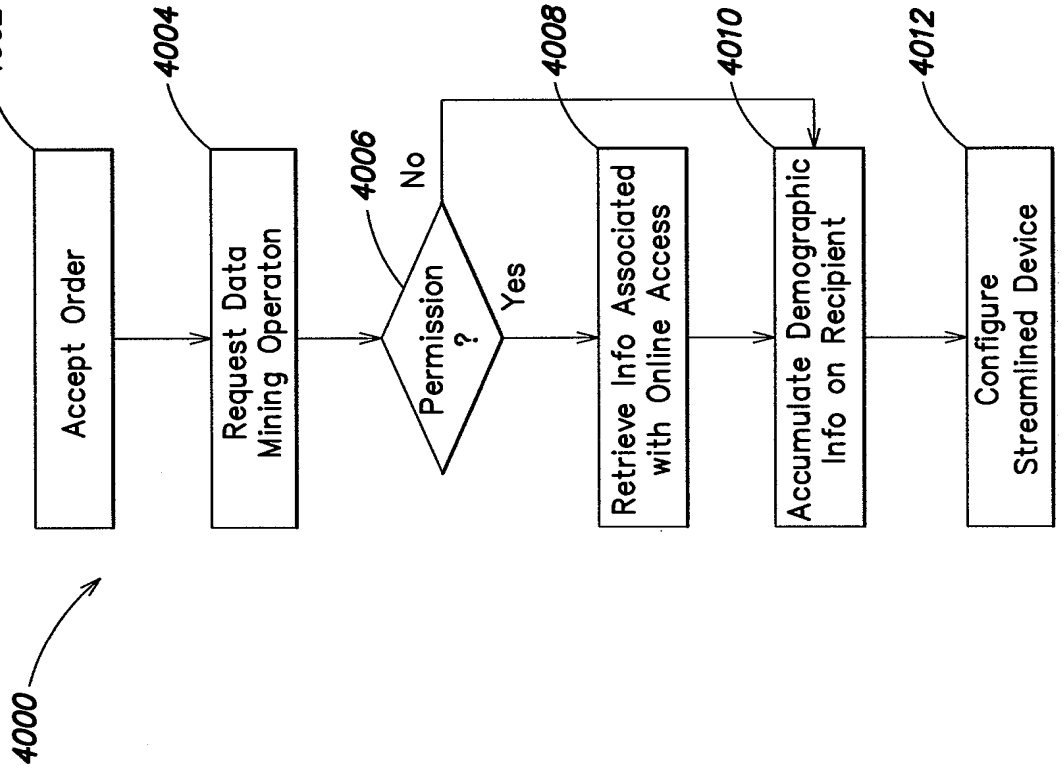

4000
4002
Accept Order
4004
Request Data Mining Operaton
4006
Permission ?
No
Yes
4008
Retrieve Info Associated with Online Access
4010
Accumulate Demographic Info on Recipient
4012
Configure Streamlined Device

FIG. 40

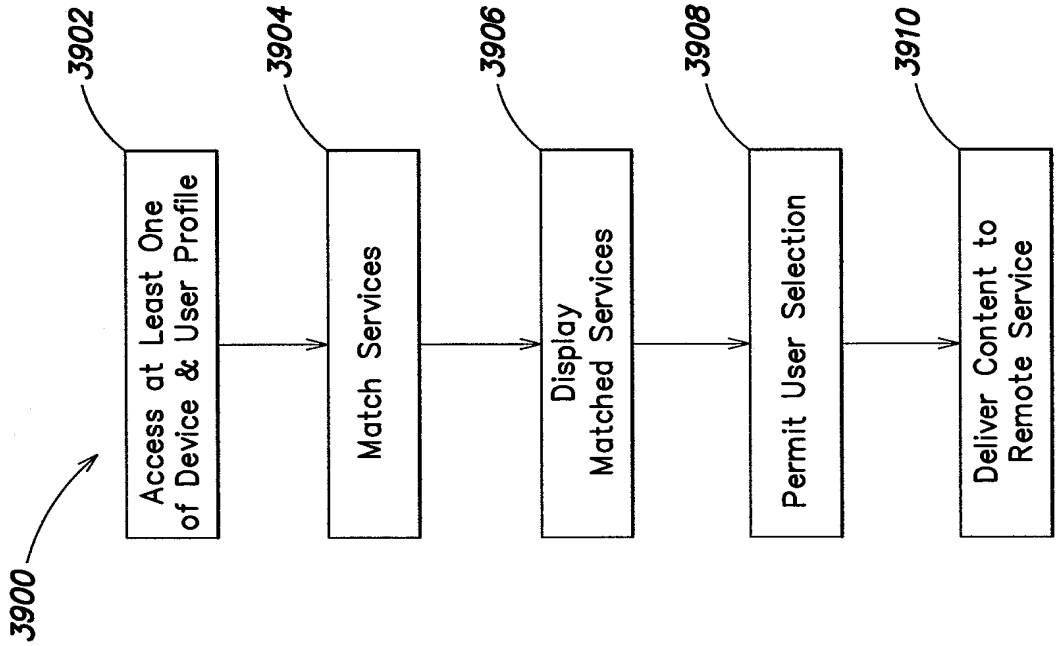

3900
3902
Access at Least One of Device & User Profile
3904
Match Services
3906
Display Matched Services
3908
Permit User Selection
3910
Deliver Content to Remote Service

FIG. 39

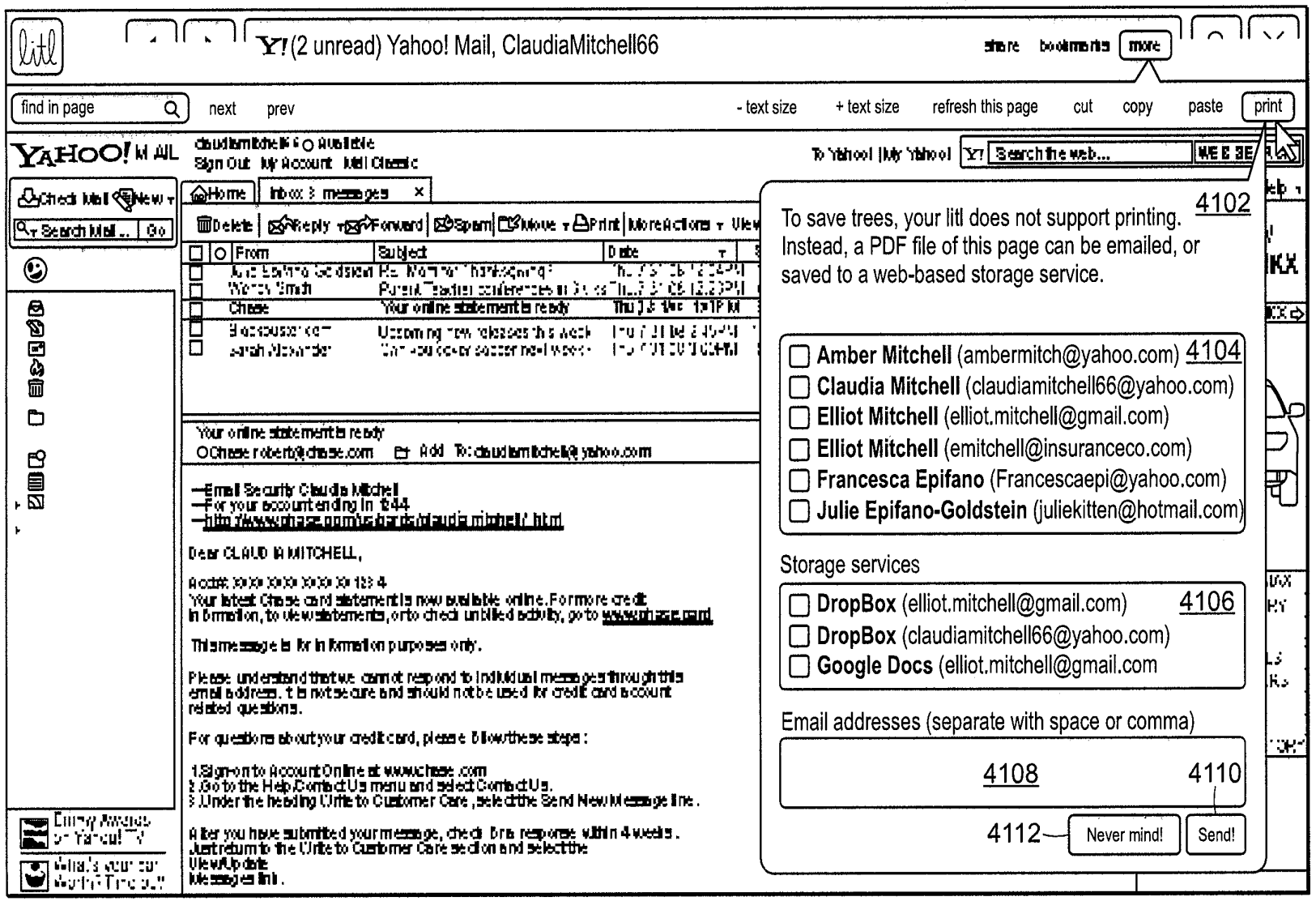

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- text size
+ text size
refresh this page
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Elliot Mitchell (elliot.mitchell@gmail.com)
Elliot Mitchell (emitchell@insuranceco.com)
Francesca Epifano (Francescaepi@yahoo.com)
Julie Epifano-Goldstein (juliekitten@hotmail.com)
Storage services
DropBox (elliot.mitchell@gmail.com) 4106
DropBox (claudiamitchell66@yahoo.com)
Google Docs (elliot.mitchell@gmail.com
Email addresses (separate with space or comma)
4108
4110
4112
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FIG. 41A


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Francesca Epifano (Francescaepi@yahoo.com)
Julie Epifano-Goldstein (juliekitten@hotmail.com)
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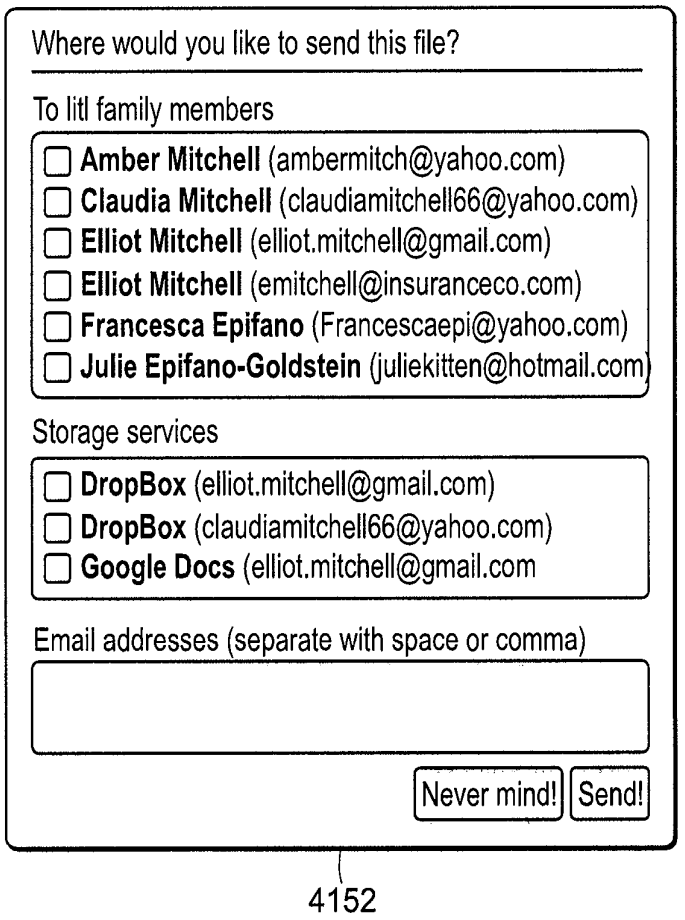

Where would you like to send this file?
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Francesca Epifano (Francescaepi@yahoo.com)
Julie Epifano-Goldstein (juliekitten@hotmail.com)
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FIG. 41B

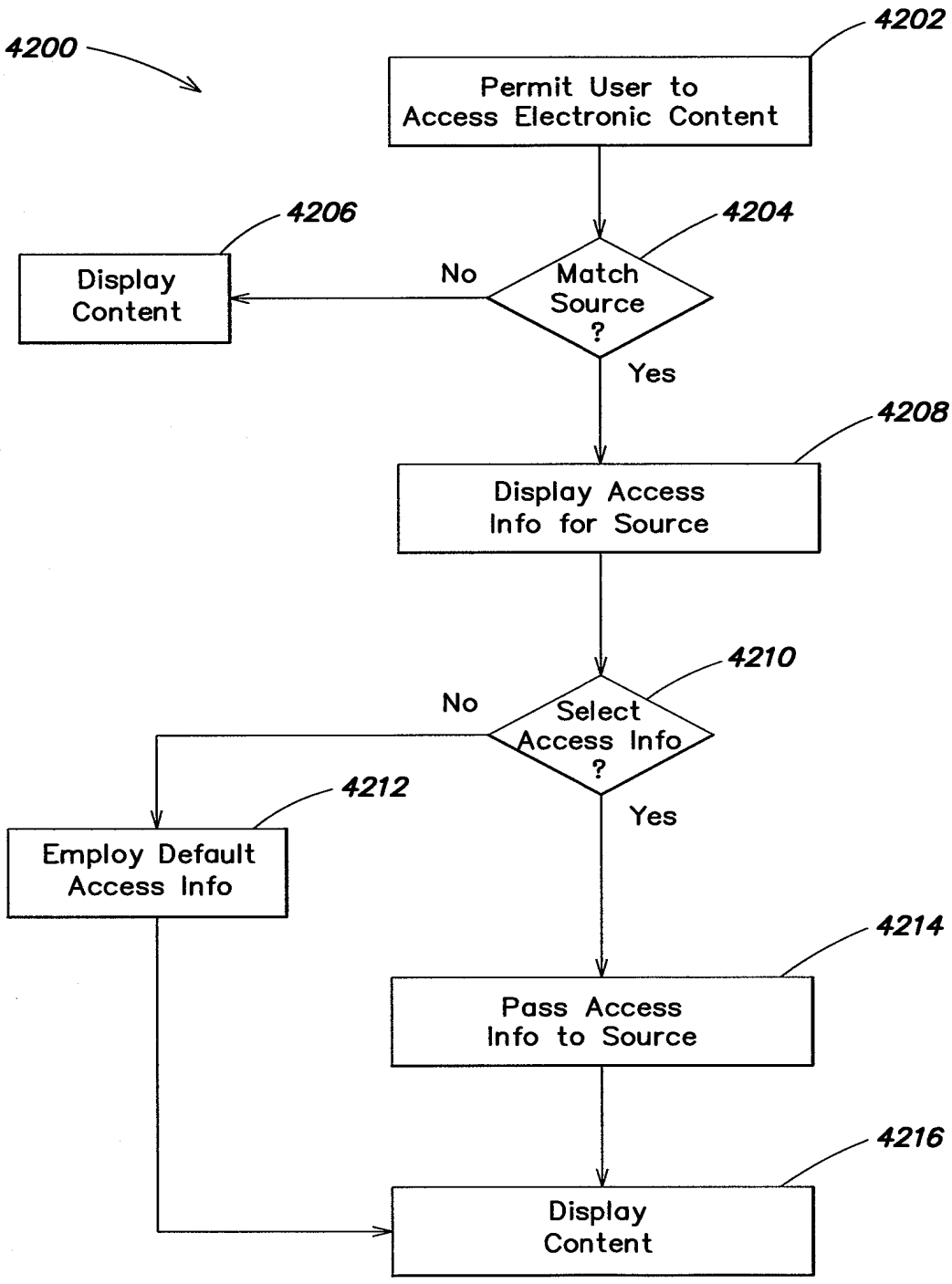

4200
4202
Permit User to Access Electronic Content
4204
Match Source ?
No
4206
Display Content
Yes
4208
Display Access Info for Source
4210
Select Access Info ?
No
4212
Employ Default Access Info
Yes
4214
Pass Access Info to Source
4216
Display Content

FIG. 42

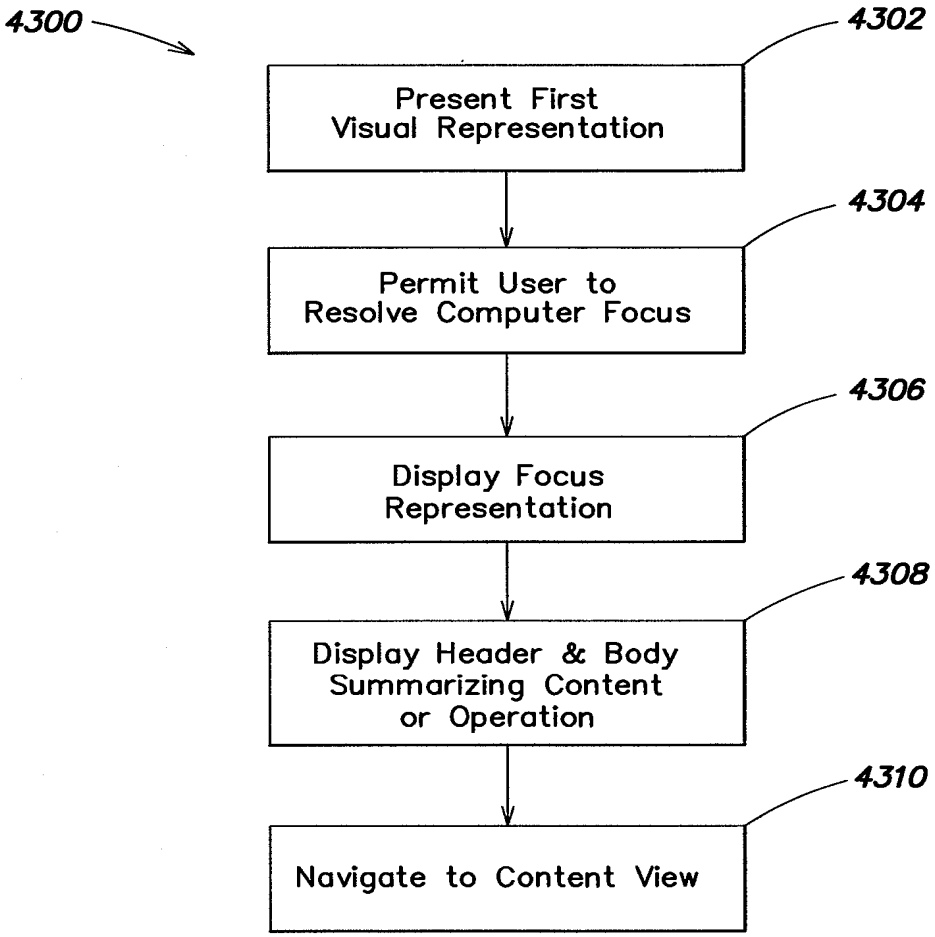

4300
4302
Present First Visual Representation
4304
Permit User to Resolve Computer Focus
4306
Display Focus Representation
4308
Display Header & Body Summarizing Content or Operation
4310
Navigate to Content View

FIG. 43

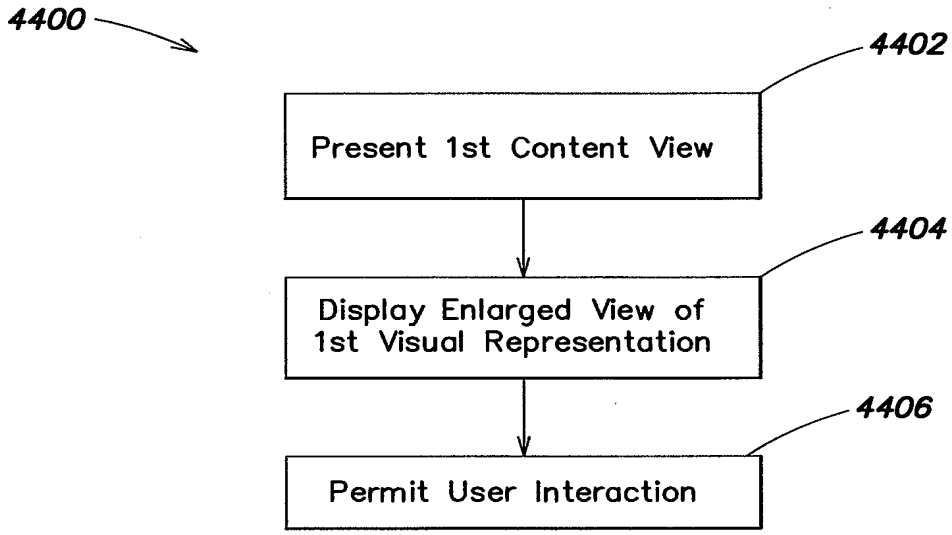

4400
4402
Present 1st Content View
4404
Display Enlarged View of 1st Visual Representation
4406
Permit User Interaction

FIG. 44

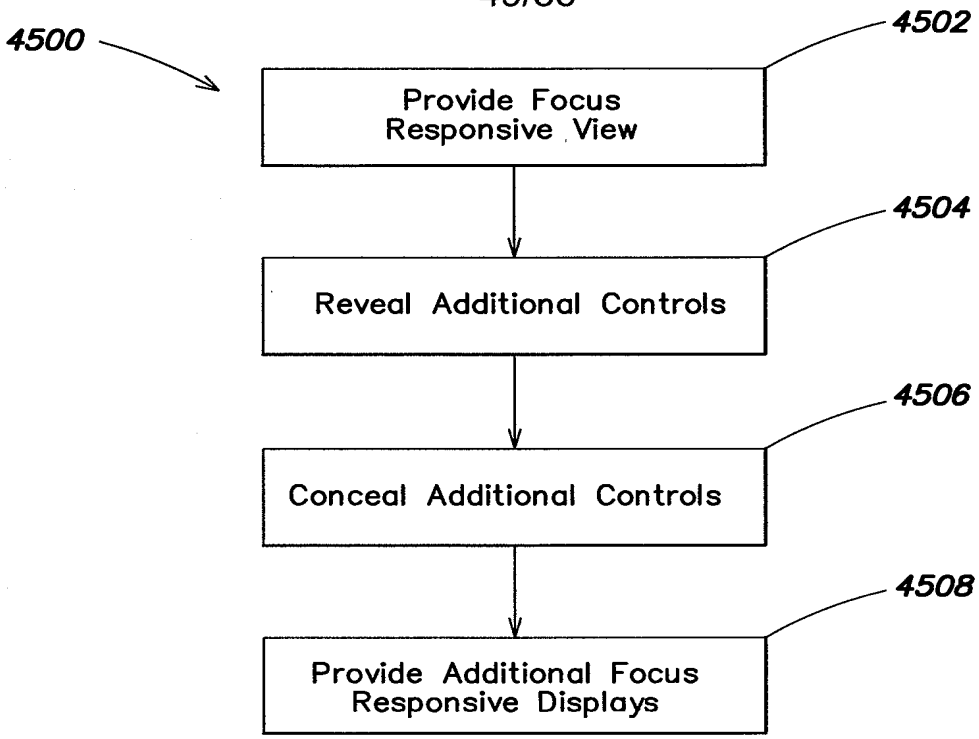

4500
4502
Provide Focus Responsive View
4504
Reveal Additional Controls
4506
Conceal Additional Controls
4508
Provide Additional Focus Responsive Displays

FIG. 45

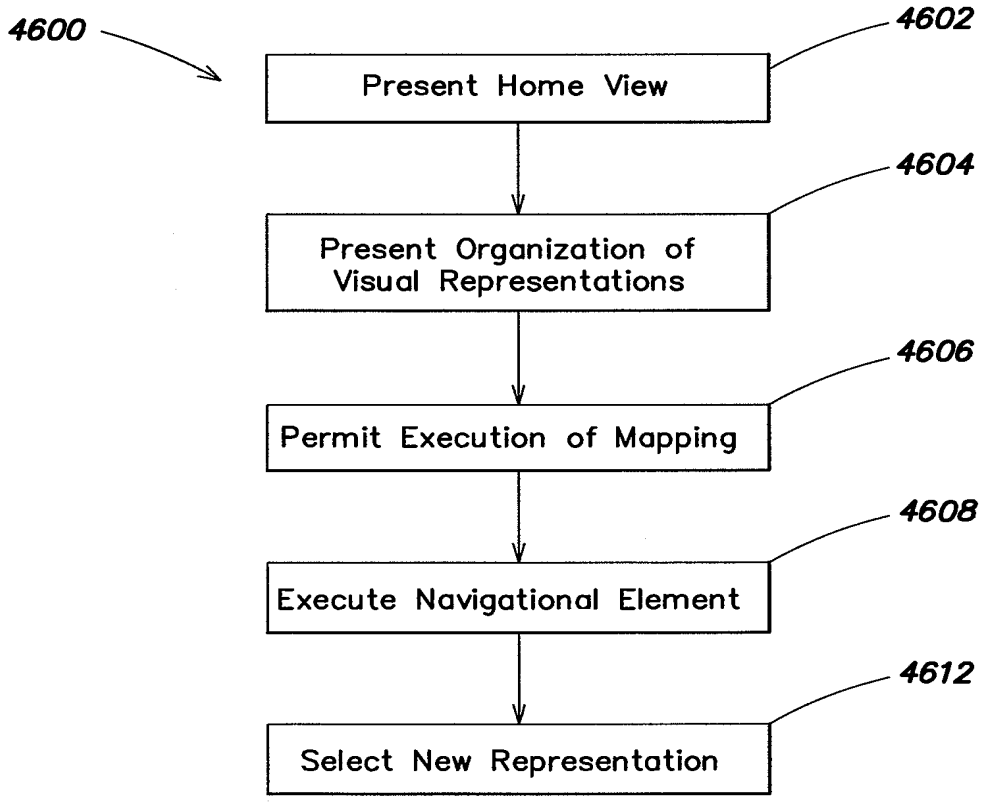

4600
4602
Present Home View
4604
Present Organization of Visual Representations
4606
Permit Execution of Mapping
4608
Execute Navigational Element
4612
Select New Representation

FIG. 46

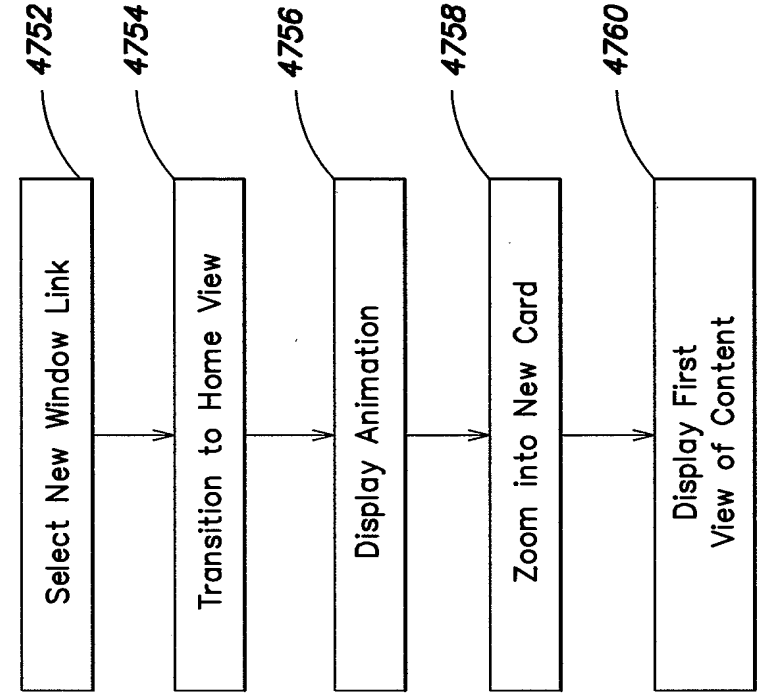


FIG. 47B

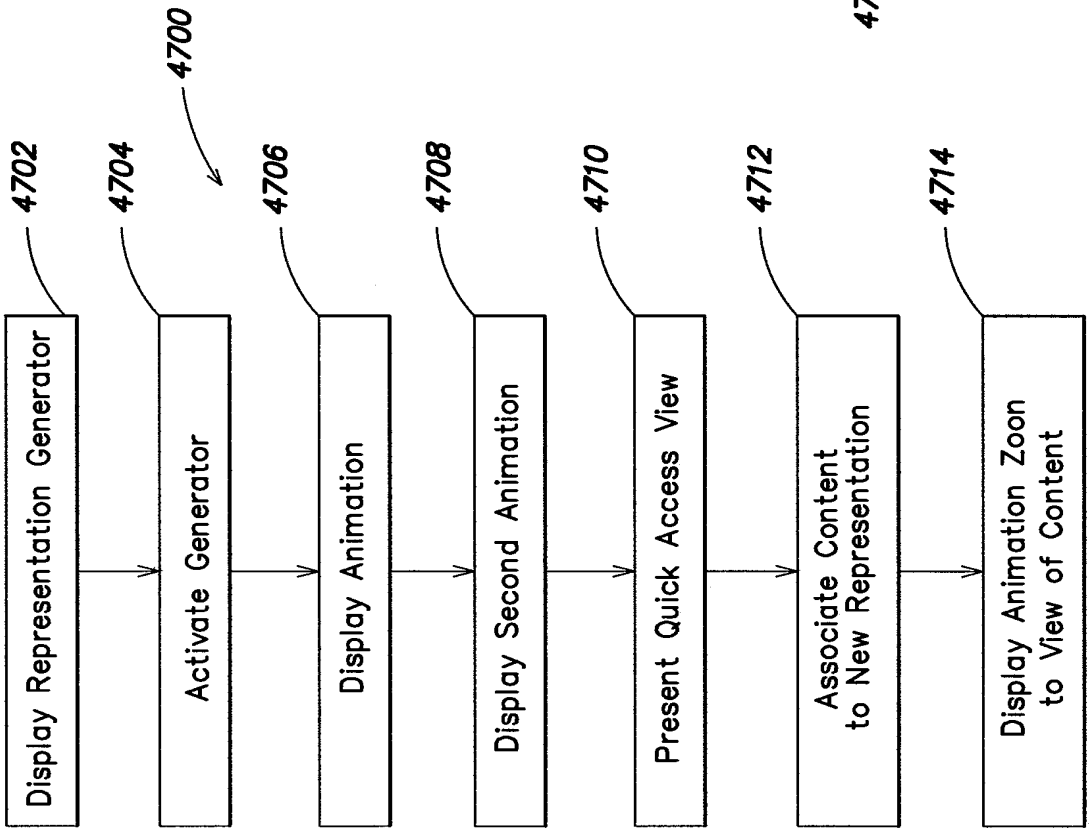


FIG. 47A

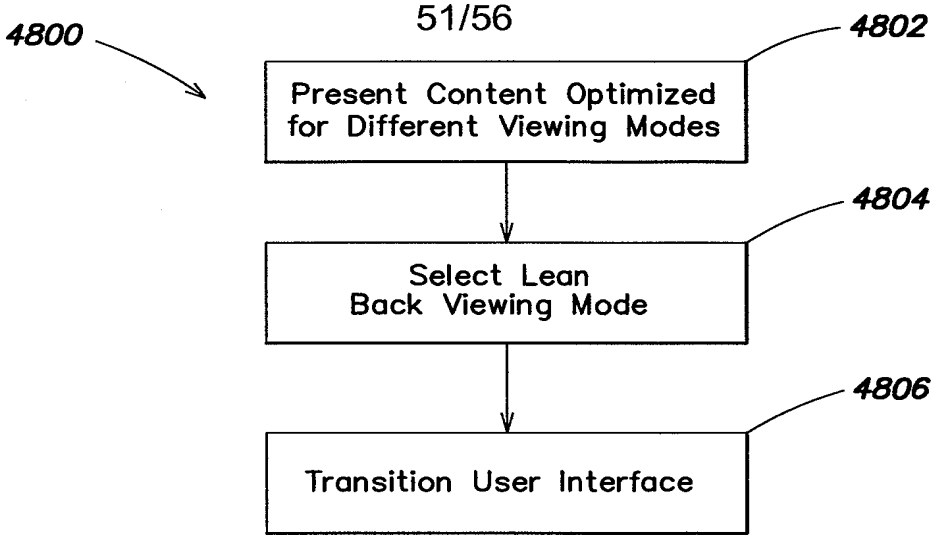


FIG. 48

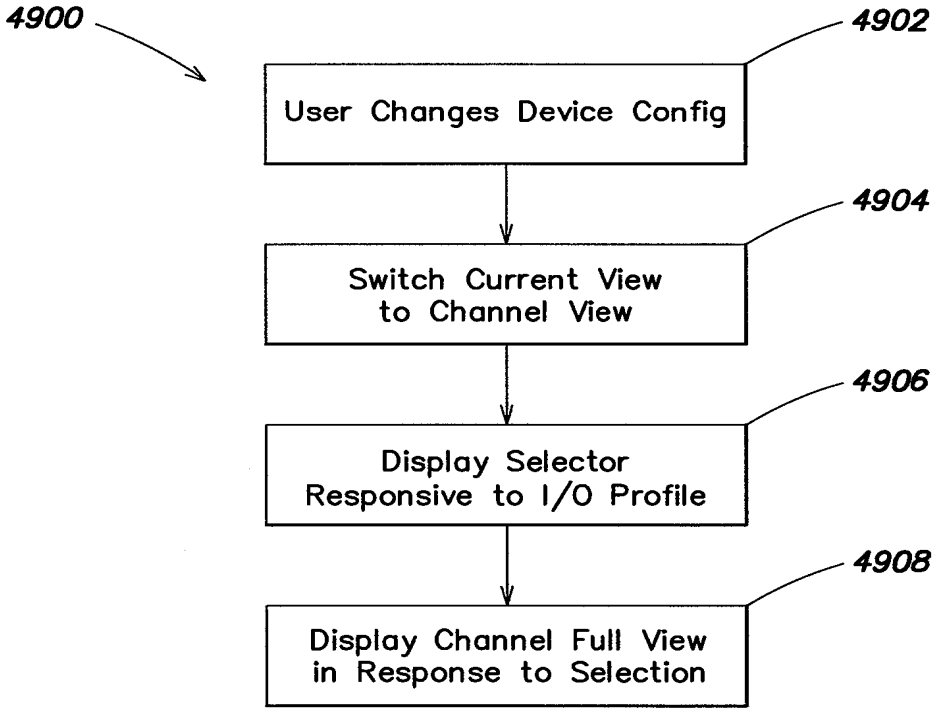


FIG. 49A

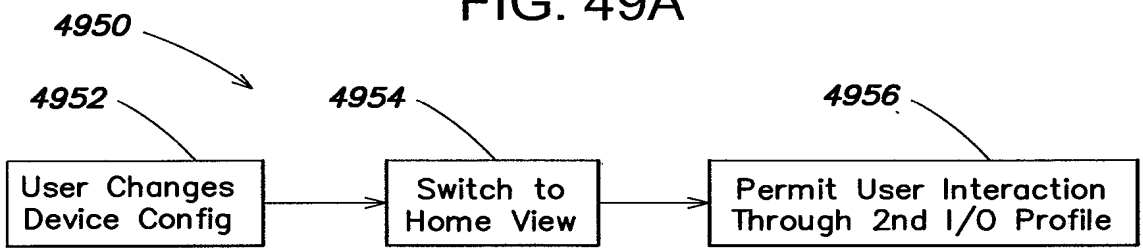


FIG. 49B

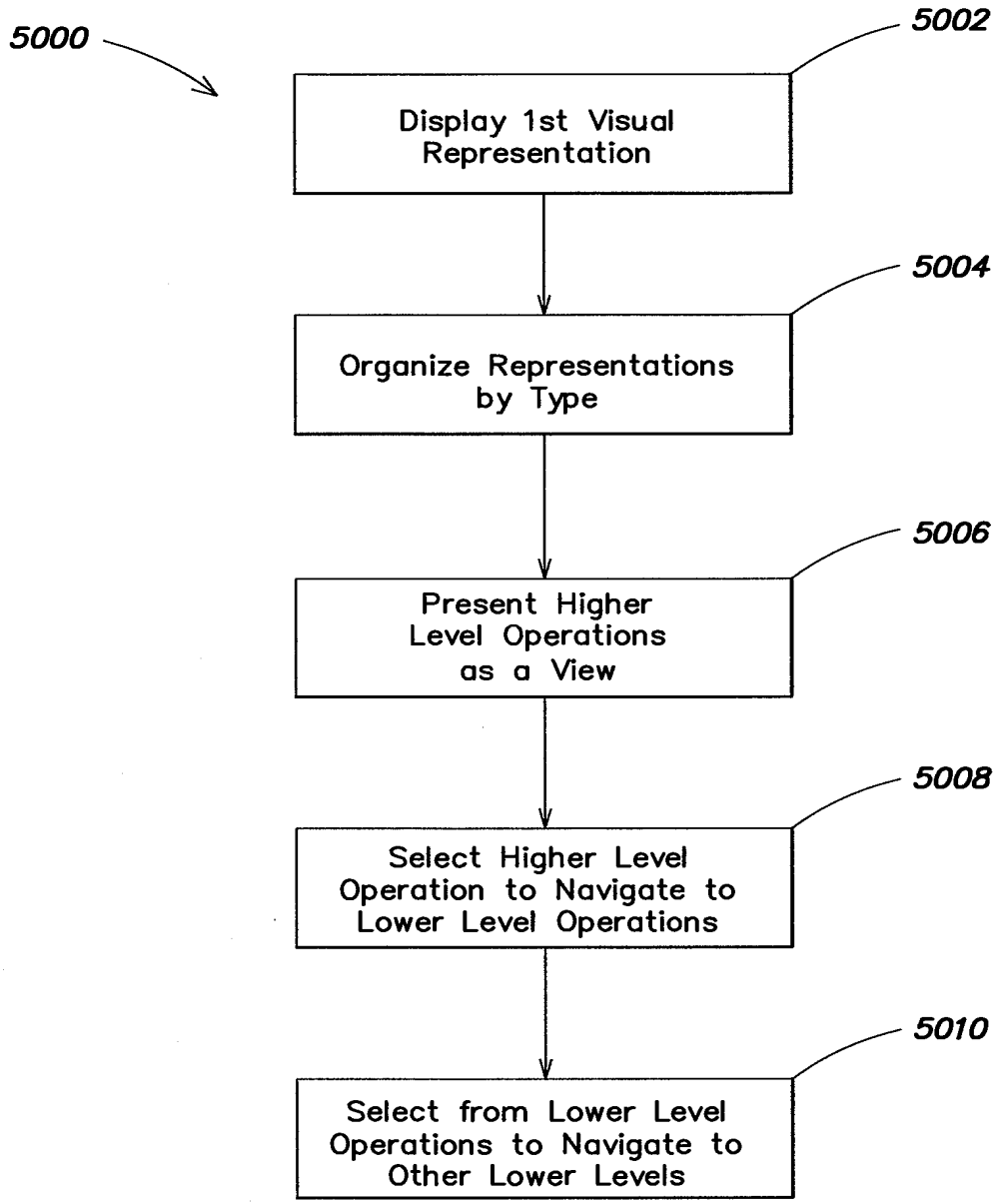

5000
5002
Display 1st Visual Representation
5004
Organize Representations by Type
5006
Present Higher Level Operations as a View
5008
Select Higher Level Operation to Navigate to Lower Level Operations
5010
Select from Lower Level Operations to Navigate to Other Lower Levels

FIG. 50

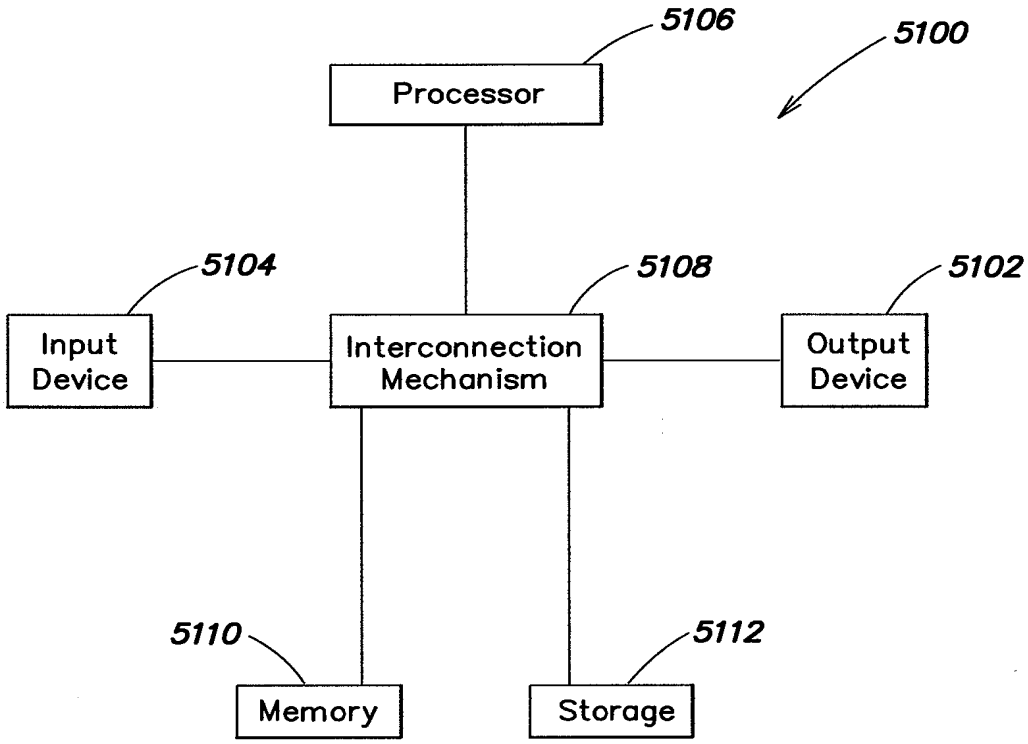

5106
5100
Processor
5104
5108
5102
Input Device
Interconnection Mechanism
Output Device
5110
5112
Memory
Storage

FIG. 51

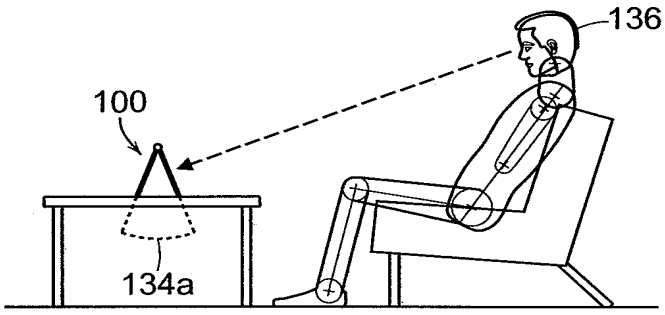


FIG. 52A

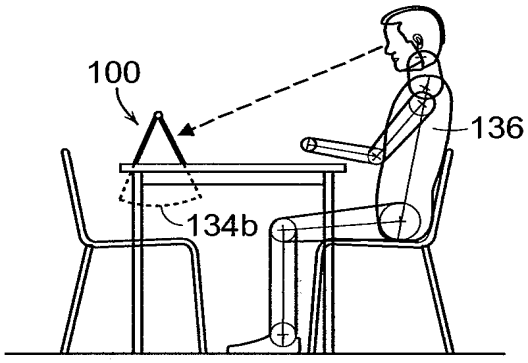


FIG. 52B

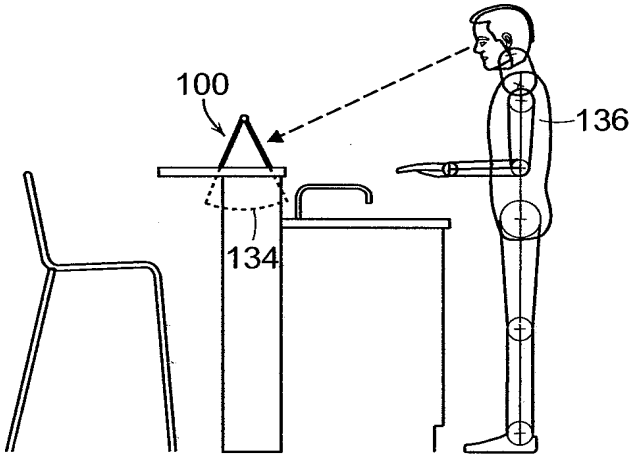


FIG. 52C

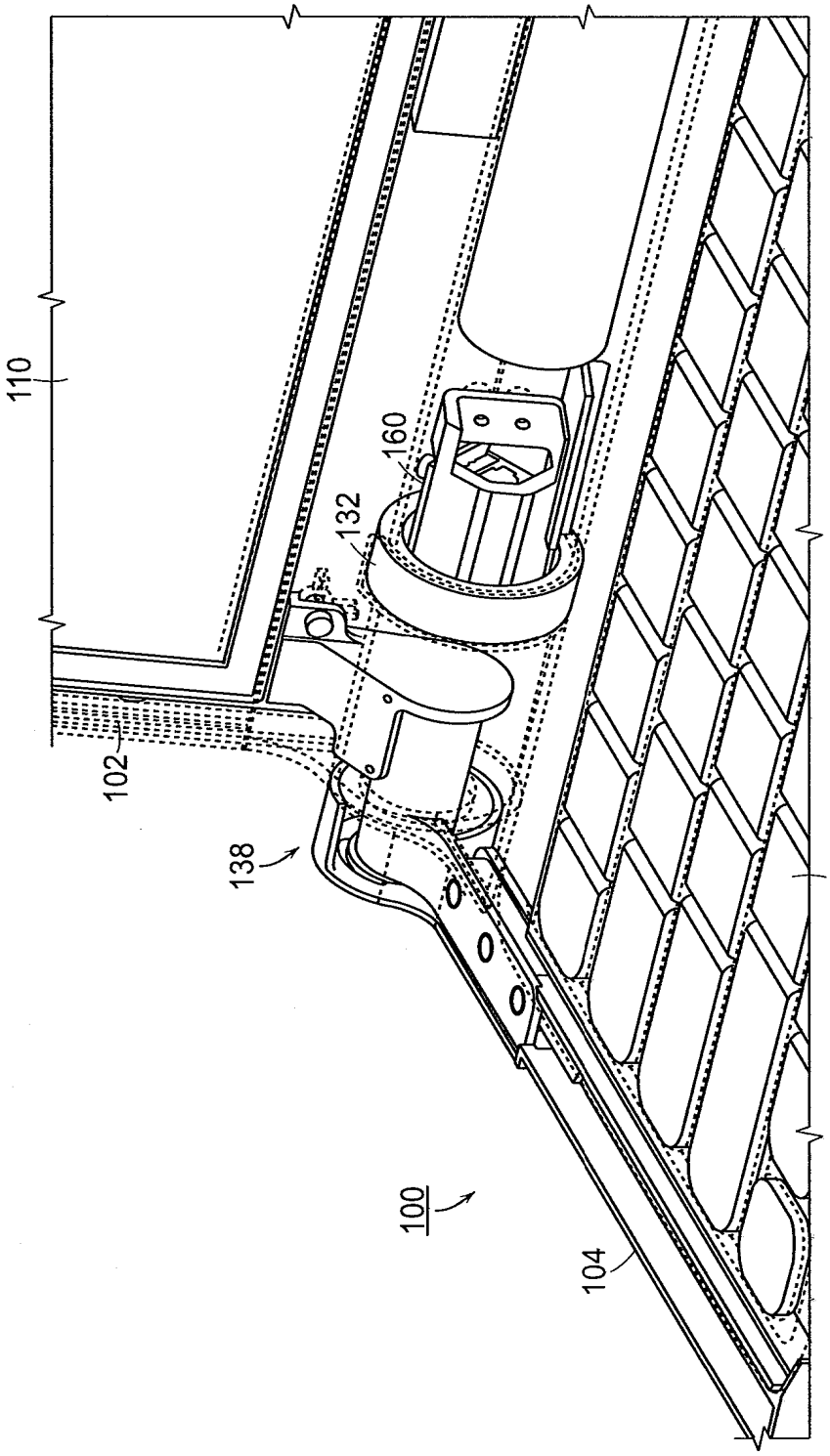


FIG. 53A

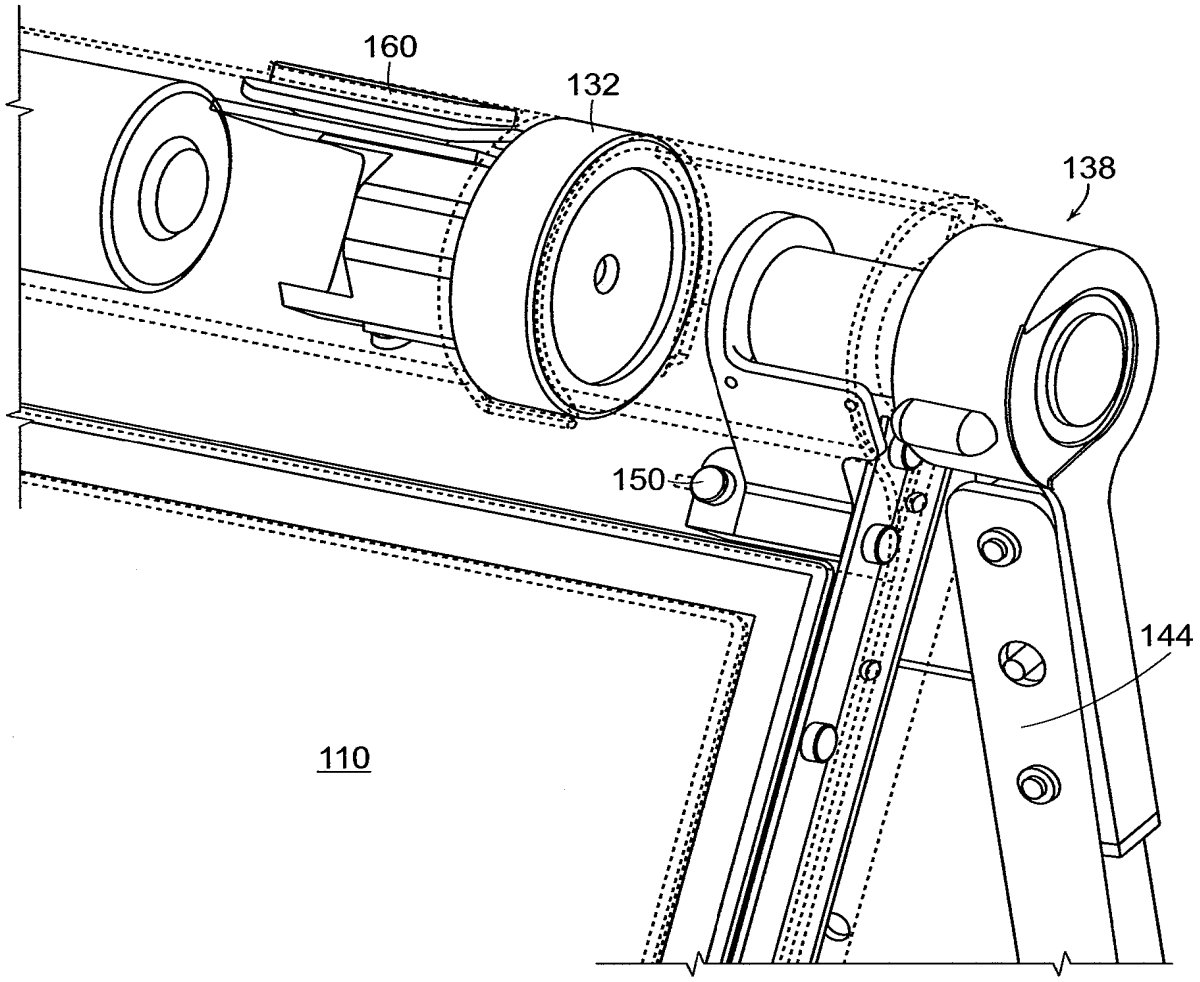


FIG. 53B

Electronic Acknowledgement Receipt

EFS ID:	21991616
Application Number:	14680422
International Application Number:	
Confirmation Number:	5691
Title of Invention:	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
First Named Inventor/Applicant Name:	Yves Behar
Customer Number:	37462
Filer:	Marcus E. Browne
Filer Authorized By:	
Attorney Docket Number:	L2039-700421
Receipt Date:	07-APR-2015
Filing Date:	
Time Stamp:	14:41:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	Application_Data_Sheet_Fillable_PDF.PDF	1896343 e7903c6f9bb712b3e16fb173bef464797559bf7f	no	13

Warnings:	
Information:	

2		Application.pdf	488321 a755731e8eaad9aa61b9300271f351b219371e40	yes	106

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Specification	1	101
Claims	102	105
Abstract	106	106

Warnings:

Information:

3	Drawings-only black and white line drawings	Figures.PDF	2124847 91f3c8a43a4bd6554d88c1a51b7db60bb6bb9ebd	no	56

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Total Files Size (in bytes):	4509511

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.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 14/680,422

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	280
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	600
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	720
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	*			OR	x 80 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	*				x 420 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						400
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	2000

APPLICATION AS AMENDED - PART II

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

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/680,422	04/07/2015	Yves Behar	L2039-700421

CONFIRMATION NO. 5691

37462
LANDO & ANASTASI, LLP
ONE MAIN STREET, SUITE 1100
CAMBRIDGE, MA 02142

FORMALITIES LETTER

OC000000074684474

Date Mailed: 04/22/2015

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
- The application search fee must be submitted.
- The application examination fee must be submitted.
- Surcharge as set forth in 37 CFR 1.16(f) must be submitted.
  The surcharge is due for any one of:
  - late submission of the basic filing fee, search fee, or examination fee,
  - late submission of inventor's oath or declaration,
  - filing an application that does not contain at least one claim on filing, or
  - submission of an application filed by reference to a previously filed application.

SUMMARY OF FEES DUE:

The fee(s) required within **TWO MONTHS** from the date of this Notice to avoid abandonment is/are itemized below. No entity status discount is in effect. If applicant is qualified for small entity status, a written assertion of small entity status must be submitted to establish small entity status. (See 37 CFR 1.27). If applicant is qualified for micro entity status, an acceptable Certification of Micro Entity Status must be submitted to establish micro entity status. (See 37 CFR 1.29 and forms PTO/SB/15A and 15B.)

- $ **280** basic filing fee.
- $ **400** for **20** electronically equivalent pages in excess of **100** application size fee.
- $ **140** surcharge.
- $ **600** search fee.
- $ **720** examination fee.
- $(**0**) previous unapplied payment amount.
- $ **2140** TOTAL FEE BALANCE DUE.

Items Required To Avoid Processing Delays:

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

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  Yves Behar
  Joshua Morenstein
  Christopher Hibmacronan
  Naoya Edahiro
  Matthew David Day
  Robert Sanford Havoc Pennington
  Noah Bruce Guyot
  Daniel Kuo
  Jenea Boshart Hayes
  Aaron Tang
  Donald Francis Fischer
  Christian Marc Schmidt
  Lisa Strausfeld
  David Livingstone Fore
  John H. Chuang
  Chris Bambacus
  Bart Haney
  Logan Ray
  Serge Beaulieu

Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

Replies should be mailed to:

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P.O. Box 1450
Alexandria VA 22313-1450

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/bmnguyen/

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/680,422	04/07/2015	2143	0.00	L2039-700421	20	1

CONFIRMATION NO. 5691

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LANDO & ANASTASI, LLP
ONE MAIN STREET, SUITE 1100
CAMBRIDGE, MA 02142

FILING RECEIPT

OC000000074684473

Date Mailed: 04/22/2015

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

Inventor(s)

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;

Applicant(s)

LiTL LLC, Boston, MA

Power of Attorney: None

Domestic Priority data as claimed by applicant

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

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

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

If Required, Foreign Filing License Granted: 04/17/2015
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/680,422**
Projected Publication Date: To Be Determined - pending completion of Missing Parts
Non-Publication Request: No
Early Publication Request: No
Title

SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT

Preliminary Class

715

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application

serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

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

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LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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NOT GRANTED

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

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I hereby certify 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 37 CFR § 1.6(a)(4).

Dated: June 22, 2015
Electronic Signature for Marcus E. Browne: /Marcus E. Browne/

Docket No.: L2039-700421
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Yves Behar et al.

Application No.: 14/680,422 Confirmation No.: 5691

Filed: April 7, 2015 Art Unit: 2143

For: SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT

Examiner: Not Yet Assigned

FIRST PRELIMINARY AMENDMENT UNDER 37 C.F.R. § 1.115

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

Dear Madam:

INTRODUCTORY COMMENTS

Prior to examination on the merits, 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

This listing of claims will replace 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 ~~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~~, the user interface comprising:

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

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

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; ~~and~~

~~the plurality of visual representations of computer content rendered on the computer display, wherein the plurality of visual representations of computer content include an association to a first view of the plurality of views, the first view including the computer content; and~~

an execution component, executing on the at least one processor, ~~comprising at least one computer hardware element~~ configured to: ~~transition the computer system display between the plurality of views, wherein the execution component further comprises a view selector component 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 [[a]] computer system in response to [[a]] the detected current computer system configuration; and

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

2-5. (Canceled)

6. (Currently Amended) The user interface of claim 1 [[3]], 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. (Currently Amended) The user interface of claim 1 [[3]], wherein the plurality of views includes a screen saver view configured to organize selected content modes for passive viewing.

8. (Currently Amended) 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 is displayed responsive to a computer system configuration,~~ 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 ~~computer display screen~~ to the right of the display component ~~computer display screen~~, wherein the body display is rendered below the header display in the display component ~~screen~~ of the computer system.

9. (Original) 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.

10. (Currently Amended) The user interface of claim 8, ~~further comprising~~ 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. (Currently Amended) The user interface of claim 11, further comprising the navigation element displayed in a ~~the~~ 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. (Currently Amended) The user interface of claim 8, ~~further comprising~~ wherein the graphical user interface is further configured to display a nascent card ~~displayed~~ in ~~the body of~~ 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. (Currently Amended) The user interface of claim 1, ~~further comprising a quick access view,~~ wherein the plurality of views includes a quick access view [[is]] configured to permit user generation of a mapping between digital content and a visual representation.

19. (Currently Amended) The user interface of claim 1 [[3]], wherein the plurality of views includes a channel view including a channel selector that displays a sequence of visual representations~~, and the view selector component is further responsive to an integrated scroll wheel on the computer system~~.

20. (Currently Amended) The user interface of claim 19, wherein the execution ~~view selector~~ 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 ~~manipulation of the integrated scroll wheel~~.

21. (New) A customized user interface to display computer content on a display component of a computer system, 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 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;

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. (New) 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.

REMARKS

Prior to examination on the merits, please enter and consider these amendments to the Claims. Claims 1-20 were previously pending in this application. By this amendment, claims 1, 6-8, 10, 13, 16, and 18-20 have been amended. Claims 2-5 have been canceled without prejudice or disclaimer. New claims 21 and 22 have been added. As a result, claims 1 and 6-22 are pending for examination with claims 1 and 21 being independent claims. No new matter has been added.

Response to Notice to File Missing Parts

In response to the Notice to File Missing Parts mailed April 22, 2015, included is a Preliminary Amendment amending the claims, a copy of the Notice to File Missing Parts, and the Filing Fees for the application (as shown in the accompanying fee transmittal).

CONCLUSION

In view of the foregoing amendments and remarks, entry and consideration of these amendments to the claims prior to examination on the merits 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.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 50/2762, (Ref. L2039-700421).

Dated: June 22, 2015

Respectfully submitted,

Electronic signature: / Marcus E. Browne /
Marcus E. Browne
Registration No.: 71,897
Matthew H. Grady
Registration No.: 52,957
LANDO & ANASTASI LLP
Riverfront Office Park
One Main Street
Suite 1100
Cambridge, Massachusetts 02142
(617) 395-7000
Attorneys for Applicant

COPY

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/680,422	04/07/2015	Yves Behar	L2039-700421

CONFIRMATION NO. 5691

37462
LANDO & ANASTASI, LLP
ONE MAIN STREET, SUITE 1100
CAMBRIDGE, MA 02142

FORMALITIES LETTER

OC000000074684474

Date Mailed: 04/22/2015

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
- The application search fee must be submitted.
- The application examination fee must be submitted.
- Surcharge as set forth in 37 CFR 1.16(f) must be submitted.
  The surcharge is due for any one of:
  - late submission of the basic filing fee, search fee, or examination fee,
  - late submission of inventor's oath or declaration,
  - filing an application that does not contain at least one claim on filing, or
  - submission of an application filed by reference to a previously filed application.

SUMMARY OF FEES DUE:

The fee(s) required within **TWO MONTHS** from the date of this Notice to avoid abandonment is/are itemized below. No entity status discount is in effect. If applicant is qualified for small entity status, a written assertion of small entity status must be submitted to establish small entity status. (See 37 CFR 1.27). If applicant is qualified for micro entity status, an acceptable Certification of Micro Entity Status must be submitted to establish micro entity status. (See 37 CFR 1.29 and forms PTO/SB/15A and 15B.)

- $ **280** basic filing fee.
- $ **400** for **20** electronically equivalent pages in excess of **100** application size fee.
- $ **140** surcharge.
- $ **600** search fee.
- $ **720** examination fee.
- $(**0**) previous unapplied payment amount.
- $ **2140** TOTAL FEE BALANCE DUE.

Items Required To Avoid Processing Delays:

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

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  Yves Behar
  Joshua Morenstein
  Christopher Hibmacronan
  Naoya Edahiro
  Matthew David Day
  Robert Sanford Havoc Pennington
  Noah Bruce Guyot
  Daniel Kuo
  Jenea Boshart Hayes
  Aaron Tang
  Donald Francis Fischer
  Christian Marc Schmidt
  Lisa Strausfeld
  David Livingstone Fore
  John H. Chuang
  Chris Bambacus
  Bart Haney
  Logan Ray
  Serge Beaulieu

Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web, including a copy of this Notice and selecting the document description "Applicant response to Pre-Exam Formalities Notice". https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

/bmnguyen/

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

Electronic Patent Application Fee Transmittal

Application Number:	14680422
Filing Date:	07-Apr-2015
Title of Invention:	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
First Named Inventor/Applicant Name:	Yves Behar
Filer:	Marcus E. Browne
Attorney Docket Number:	L2039-700421

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility application filing	1011	1	280	280
Utility Search Fee	1111	1	600	600
Utility Examination Fee	1311	1	720	720
Pages:				
Utility Appl Size fee per 50 sheets >100	1081	1	400	400
Claims:				
Miscellaneous-Filing:				
Late Filing Fee for Oath or Declaration	1051	1	140	140

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**2140**

Electronic Acknowledgement Receipt

EFS ID:	22703317
Application Number:	14680422
International Application Number:	
Confirmation Number:	5691
Title of Invention:	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
First Named Inventor/Applicant Name:	Yves Behar
Customer Number:	37462
Filer:	Marcus E. Browne
Filer Authorized By:	
Attorney Docket Number:	L2039-700421
Receipt Date:	22-JUN-2015
Filing Date:	07-APR-2015
Time Stamp:	18:32:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$2140
RAM confirmation Number	5425
Deposit Account	502762
Authorized User	BROWNE, MARCUS E.

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

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

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

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

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

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

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Preliminary_Amendment.pdf	38950 cba99e17f6ac069b1e26d3332b5a0e25da0152ed	yes	8

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Preliminary Amendment	1	1
Claims	2	6
Applicant Arguments/Remarks Made in an Amendment	7	8

Warnings:

Information:

2	Applicant Response to Pre-Exam Formalities Notice	Copy_of_Notice_to_File_Missing_Parts.PDF	215541 4f9259e62da7134521bf20e3d703e8977bcd0d67	no	2

Warnings:

Information:

3	Fee Worksheet (SB06)	fee-info.pdf	38910 29b58e58ee8543b965d1cac6d998515fb8698737	no	2

Warnings:

Information:

Total Files Size (in bytes):	293401

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/680,422	Filing Date 04/07/2015	☐ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	06/22/2015	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 18	Minus	** 20	= 0	X $80 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	X $420 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
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LIE
/MARGARET BYARS/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/680,422	04/07/2015	Yves Behar	L2039-700421

CONFIRMATION NO. 5691

37462
LANDO & ANASTASI, LLP
ONE MAIN STREET, SUITE 1100
CAMBRIDGE, MA 02142

INFORMAL NOTICE

OC000000075965932

Date Mailed: 06/26/2015

INFORMATIONAL NOTICE TO APPLICANT

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

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

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  - Yves Behar
  - Joshua Morenstein
  - Christopher Hibmacronan
  - Naoya Edahiro
  - Matthew David Day
  - Robert Sanford Havoc Pennington
  - Noah Bruce Guyot
  - Daniel Kuo
  - Jenea Boshart Hayes
  - Aaron Tang
  - Donald Francis Fischer
  - Christian Marc Schmidt
  - Lisa Strausfeld
  - David Livingstone Fore
  - John H. Chuang
  - Chris Bambacus
  - Bart Haney
  - Logan Ray
  - Serge Beaulieu

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/dnguyen/

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 14/680,422

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	280
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	600
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	720
TOTAL CLAIMS (37 CFR 1.16(i))	18 minus 20 =	*			OR	x 80 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*				x 420 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						400
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	2000

APPLICATION AS AMENDED - PART II

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

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/680,422	04/07/2015	2143	2140	L2039-700421	18	2

CONFIRMATION NO. 5691

UPDATED FILING RECEIPT

37462
LANDO & ANASTASI, LLP
ONE MAIN STREET, SUITE 1100
CAMBRIDGE, MA 02142

OC000000075965931

Date Mailed: 06/26/2015

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

Inventor(s)

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;

Applicant(s)

LiTL LLC, Boston, MA;

Power of Attorney: None

Domestic Priority data as claimed by applicant

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

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

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

If Required, Foreign Filing License Granted: 04/17/2015
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/680,422**
Projected Publication Date: 10/01/2015
Non-Publication Request: No
Early Publication Request: No
Title

SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT

Preliminary Class

715

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

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

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/680,422	04/07/2015	Yves Behar	L2039-700421

CONFIRMATION NO. 5691

37462
LANDO & ANASTASI, LLP
ONE MAIN STREET, SUITE 1100
CAMBRIDGE, MA 02142

PUBLICATION NOTICE



Title:SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT

Publication No.US-2015-0277688-A1
Publication Date:10/01/2015

NOTICE OF PUBLICATION OF APPLICATION

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

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PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(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

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	3468576		1969-09-23	Beyer et al.	
	2	4939514		1990-07-03	Miyazaki	
	3	5200913		1993-04-06	Hawkins et al.	
	4	5268817		1993-12-07	Miyagawa et al.	
	5	5436954		1995-07-25	Nishiyama et al.	
	6	5515345		1996-05-07	Barreira et al.	
	7	5547698		1996-08-20	Lansbergen et al.	
	8	5712760		1998-01-27	Coulon et al.	

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	First Named Inventor	Yves Behar
	Art Unit	2143
	Examiner Name	J. N. To
	Attorney Docket Number	L2039-700421

	9	5790371		1998-08-04	Latocha et al.	
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	13	5841631		1998-11-24	Shin et al.	
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	20	6067224		2000-05-23	Nobuchi	
	21	6094191		2000-07-25	Watanabe et al.	
	22	6097389		2000-08-01	Morris et al.	
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	24	6222507		2001-04-24	Gouko	
	25	6223393		2001-05-01	Knopf	
	26	6262885		2001-07-17	Emma et al.	
	27	6266236		2001-07-24	Ku et al.	
	28	6275376		2001-08-14	Moon	
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	30	6302612		2001-10-16	Fowler et al.	

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	Attorney Docket Number	L2039-700421

	31	6323846		2001-11-27	Westerman et al.	
	32	6327482		2001-12-04	Miyashita	
	33	6341061		2002-01-22	Eisbach et al.	
	34	6343006		2002-01-29	Moscovitch et al.	
	35	6377444		2002-04-23	Price et al.	
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	37	6464195		2002-10-15	Hildebrandt	
	38	6492974		2002-12-10	Nobuchi et al.	
	39	6510049		2003-01-21	Rosen	
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	Attorney Docket Number	L2039-700421

	42	6659516		2003-12-09	Wang et al.	
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	47	6771494		2004-08-03	Shimano	
	48	6788527		2004-09-07	Doczy et al.	
	49	6819304		2004-11-16	Branson	
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	52	6882335		2005-04-19	Saarinen	

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	Attorney Docket Number	L2039-700421

	53	6944012		2005-09-13	Doczy et al.	
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	55	6972752		2005-12-06	Nako et al.	
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	57	7061472		2006-06-13	Schweizer et al.	
	58	7072179		2006-07-04	Curran et al.	
	59	7138962		2006-11-21	Koenig	
	60	7239508		2007-07-03	Ferrucei	
	61	7250207		2007-07-31	Heal et al.	
	62	7366994		2008-04-29	Loui	
	63	7382607		2008-06-03	Skillman	

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	First Named Inventor	Yves Behar
	Art Unit	2143
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	Attorney Docket Number	L2039-700421

	64	7428142		2008-09-23	Ligtenberg et al.	
	65	7467356		2008-12-16	Gettman et al.	
	66	7522946		2009-04-21	Im	
	67	7698407		2010-04-13	Mattox, Jr. et al.	
	68	7756928		2010-07-13	Meenan et al.	
	69	7814425		2010-10-12	O'Shaugnessy et al.	
	70	7869834		2011-01-11	Seol et al.	
	71	8289688		2012-10-16	Behar et al.	
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	73	8612888		2013-12-17	Pennington et al.	
	74	8624844		2014-01-07	Behar et al.	

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	Attorney Docket Number	L2039-700421

	75	D333636		1993-03-02	Issa	
	76	D391927		1998-03-10	Faranda et al.	
	77	D392944		1998-03-31	Issa	
	78	D395868		1998-07-07	Iino	
	79	D399526		1998-10-13	Brady	
	80	D416003		1999-11-02	Schiefer et al.	
	81	D452238		2001-12-18	Sugano et al.	
	82	D462069		2002-08-27	Gatto	
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	84	D476326		2003-06-24	Tanimura	
	85	D479708		2003-09-16	Hwang et al.	

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	First Named Inventor	Yves Behar
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	Examiner Name	J. N. To
	Attorney Docket Number	L2039-700421

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	87	D491936		2004-06-22	Jao	
	88	D494162		2004-08-10	Kondo	
	89	D495674		2004-09-07	Yoo et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2015-04-07
	First Named Inventor	Yves Behar
	Art Unit	2143
	Examiner Name	J. N. To
	Attorney Docket Number	L2039-700421

	97	D523429		2006-06-20	Lin	
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	104	D593085		2009-05-26	Behar et al.	
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	Attorney Docket Number	L2039-700421

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20010032320		2001-10-18	Abdelnur et al.	
	2	20020005818		2002-01-17	Bruzzone	
	3	20020010707		2002-01-24	CHANG et al.	
	4	20020021258		2002-02-21	Koenig	
	5	20030048595		2003-03-13	Hsieh et al.	
	6	20030080995		2003-05-01	Tenenbaum et al.	
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	First Named Inventor	Yves Behar
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	Attorney Docket Number	L2039-700421

	10	20040025993		2004-02-12	Russell	
	11	20040203535		2004-10-14	Kim et al.	
	12	20040207568		2004-10-21	Ooshima et al.	
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	15	20050005241		2005-01-06	Hunleth et al.	
	16	20050010860		2005-01-13	Weiss et al.	
	17	20050018396		2005-01-27	Nakajima et al.	
	18	20050041378		2005-02-24	Hamada et al.	
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	20	20050071782		2005-03-31	Barrett et al.	

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	21	20050083642		2005-04-21	Senpuku et al.	
	22	20050091596		2005-04-28	Anthony et al.	
	23	20050128695		2005-06-16	Han	
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	25	20050146845		2005-07-07	Moscovitch	
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	33	20060238439		2006-10-26	Fuller et al.	
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	70	20140282263		2014-09-18	Pennington et al.	

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	1	1292112	CN	A	2001-04-18	Sharp Kk		☒
	2	19952486	DE	A1	2001-05-03	Schweizer Joachim et al.		☐
	3	0588210	EP	A1	1994-03-23	Hitachi Ltd		☒

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	4	10-111658	JP	A	1998-04-28	Fujitsu Ltd		☒
	5	11-296259	JP		1999-10-29	CANON INC.		☒
	6	2001-167211	JP	A	2001-06-22	Hitachi Ltd et al.		☒
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	9	2005-242436	JP	A	2005-09-08	Matsushita Electric Ind Co Ltd		☒
	10	2006-227409	JP		2006-08-31	NIKON CORP.		☒
	11	5-197507	JP	A	1993-08-06	Hitachi Ltd		☒
	12	6-242853	JP	A	1994-09-02	Hitachi Ltd et al.		☒
	13	6-259166	JP	A	1994-09-16	Hitachi Ltd		☒
	14	6090200	JP	A	1994-03-29	HITACHI LTD		☒

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	Attorney Docket Number	L2039-700421

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	16	1020000036647	KR		2002-06-15	LG Electronics Inc.		☒

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NON-PATENT LITERATURE DOCUMENTS Remove

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[5]
	1	http://laptop.org/en/laptop/start/ebook.shtml accessed on September 29, 2008	☐
	2	International Search Report from a commonly owned PCT application PCT/US09/39117	☐
	3	Miller, M., "Creating a Digital Home Entertainment System with Windows Media Center" , Apr 2006, Que.	☐
	4	Supplemental European Search Report from corresponding European Application No. 09755433 dated March 25, 2011.	☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (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 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.

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

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Dated: November 10, 2015
Electronic Signature for Marcus E. Browne: /Marcus E. Browne/

Docket No.: L2039-700421

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Yves Behar et al.

Application No.: 14/680,422 | Confirmation No.: 5691

Filed: April 7, 2015 | Art Unit: 2143

For: SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT | Examiner: J. N. To

INFORMATION DISCLOSURE STATEMENT (IDS)

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

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 C.F.R. § 1.97(b)(3)).

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. The foreign and non-patent literature documents listed on the attached form PTO/SB/08 are not supplied because they were previously cited and submitted to the Office in prior application number 12/416,496 filed on April 1, 2009 and relied upon in this application for an earlier filing date under 35 U.S.C. § 120.

The Applicants would like to bring to the Examiner's attention to the following co-pending applications, which are commonly owned and may contain subject matter related to this application:

Serial No.	Publication No.	Filing Date	Inventor(s)
12/416,479	2009/0322790	April 1, 2009	Yves Behar *et al.*
13/651,636	2013/0141854	October 15, 2012	Yves Behar *et al.*
14/108,576	2014/0282263	December 17,2013	Robert S. Pennington *et al.*

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. § 1.56(a) exists. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 50/2762 (Ref. L2039-700421).

Dated: November 10, 2015

Respectfully submitted,

Electronic signature: /Marcus E. Browne/
Marcus E. Browne
Registration No.: 71,897
Matthew H. Grady
Registration No.: 52,957
LANDO & ANASTASI LLP
Riverfront Office Park
One Main Street, Suite 1100
Cambridge, Massachusetts 02142
(617) 395-7000

Electronic Acknowledgement Receipt

EFS ID:	24033411
Application Number:	14680422
International Application Number:	
Confirmation Number:	5691
Title of Invention:	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
First Named Inventor/Applicant Name:	Yves Behar
Customer Number:	37462
Filer:	Marcus E. Browne
Filer Authorized By:	
Attorney Docket Number:	L2039-700421
Receipt Date:	10-NOV-2015
Filing Date:	07-APR-2015
Time Stamp:	10:05:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	Information_Disclosure_Statement_Fillable_PDF.pdf	1040254 cbd908e467a249f947f140379b279b915ea33b04	no	21

Warnings:	
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2	Transmittal Letter	Information_Disclosure_Statement.pdf	28783 b2ecff6bd43e11c3dcf64cbe6fca0dbc5ee3c58e	no	2
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

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

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Application Number	14/680,422
Filing Date	April 7, 2015
First Named Inventor	Yves Behar
Title	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
Art Unit	2143
Examiner Name	J. N. To
Attorney Docket Number	L2039.70004US03

SIGNATURE of Applicant or Patent Practitioner

Signature	/Edward J. Russavage/	Date (Optional)	3/17/2016
Name	Edward J. Russavage	Registration Number	43,069
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

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

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Signature	Kristin Carroll	Date (Optional)	2/26/2016
Name	Kristin Carroll		
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[ ] Total of 1 forms are submitted.

4565466.1

Electronic Acknowledgement Receipt

EFS ID:	25244207
Application Number:	14680422
International Application Number:	
Confirmation Number:	5691
Title of Invention:	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
First Named Inventor/Applicant Name:	Yves Behar
Customer Number:	37462
Filer:	Edward J. Russavage/Sara Sikorski
Filer Authorized By:	Edward J. Russavage
Attorney Docket Number:	L2039-700421
Receipt Date:	18-MAR-2016
Filing Date:	07-APR-2015
Time Stamp:	16:27:56
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	L203970004US03-POA-EJR.pdf	17215 9b343a38b8525757ae853e11cc64cb97032f1a7b	no	1

Warnings:	
Information:	

2	Power of Attorney	L203990000US00-POA82-EJR.pdf	371240 80cd05c7b4d5ae1af5b3b8f6a567fad2d925fd3c	no	1

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

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

New International Application Filed with the USPTO as a Receiving Office

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/680,422	04/07/2015	Yves Behar	L2039-70004US03

CONFIRMATION NO. 5691

23628
WOLF GREENFIELD & SACKS, P.C.
600 ATLANTIC AVENUE
BOSTON, MA 02210-2206

POA ACCEPTANCE LETTER

OC000000081799493

Date Mailed: 03/30/2016

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 03/18/2016.

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

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/nhassani/

FORM PTO-1449/A and B (modified PTO/SB/08)	APPLICATION NO.: 14/680,422	ATTY. DOCKET NO.: L2039.70004US03
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: April 07, 2015	CONFIRMATION NO.: 5691
	FIRST NAMED INVENTOR: Yves Behar	
Sheet 1 of 2	GROUP ART UNIT: 2141	EXAMINER: Amy Ng

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		
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		5,708,561		Huilgol et al.	01-13-1998
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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	

EXAMINER:	DATE CONSIDERED:

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

FORM PTO-1449/A and B (modified PTO/SB/08)				APPLICATION NO.: 14/680,422	ATTY. DOCKET NO.: L2039.70004US03
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FILING DATE: April 07, 2015	CONFIRMATION NO.: 5691
				FIRST NAMED INVENTOR: Yves Behar	
Sheet	2	of	2	GROUP ART UNIT: 2141	EXAMINER: Amy Ng

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).	
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		Office Action L2039-700111 dated April 4, 2011, for Application No. 12/170,951 (L2039.70001US02).	

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

(12) UK Patent Application (19) GB (11) 2 321 982 (13) A

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G06F 1/16

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(56) Documents Cited
EP 0394879 A1 US 5544005 A US 4903221 A

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(71) Applicant(s)
Fujitsu ICL Computers Oy
(Incorporated in Finland)
Po Box 10, Karaportti 8, FIN-02610 Espoo, Finland

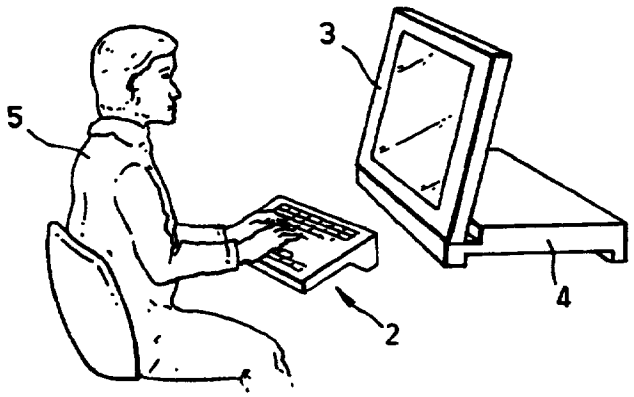
(72) Inventor(s)
Sakari Välikangas

(74) Agent and/or Address for Service
S M Dupuy
International Computers Limited, Cavendish Road,
STEVENAGE, Hertfordshire, SG1 2DY,
United Kingdom

(54) Abstract Title
Positioning notebook computer screen to facilitate use with external keyboard

(57) When using an external keyboard with a notebook computer, the integral keyboard prevents the screen from being located at the optimum distance from the user. So that the external keyboard can be placed nearer to the notebook's screen, said screen may be capable of rotating through 270° about its hinge from the closed position, allowing the notebook to be placed with its integral keyboard face down on a work surface thereby permitting location of the external keyboard nearer the screen. Alternatively, with the screen open to an angle of 270° the notebook can be stood on its ends in an "A" shaped configuration. In this mode the screen display needs inverting. In a further mode the screen is detachable and may be relocated at the end of the integral keyboard which is nearest the user. Alternatively, the screen can rotate about an axis perpendicular to its hinge.

Fig.2.



GB 2 321 982 A

At least one drawing originally filed was informal and the print reproduced here is taken from a later filed formal copy.

Fig.1.

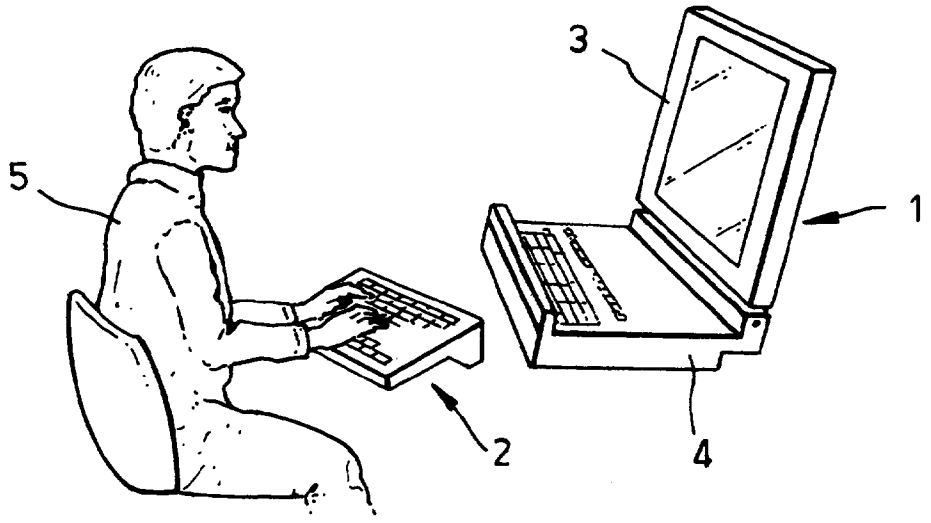


Fig.2.

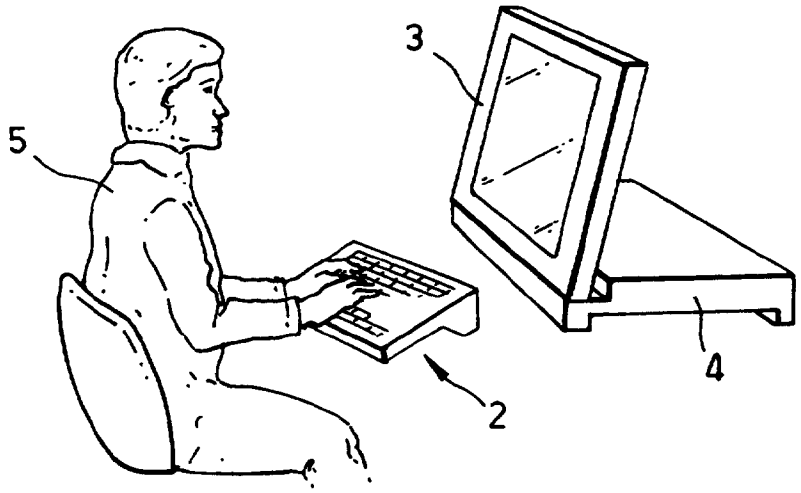


Fig.3.

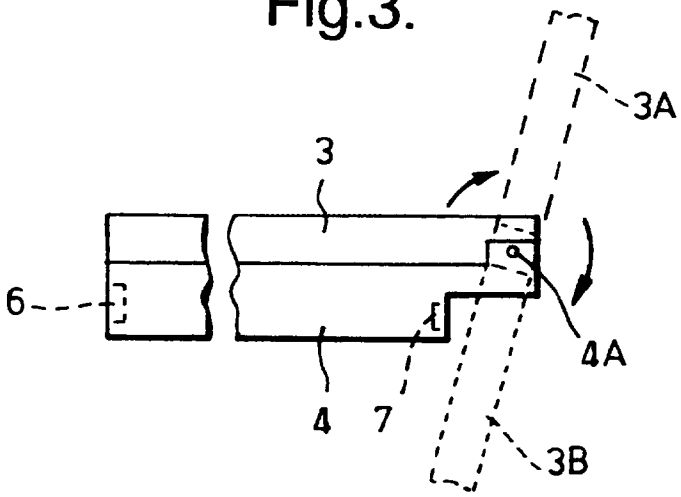


Fig.4.

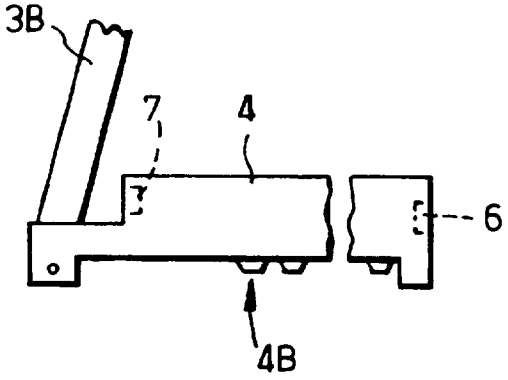


Fig.4A.

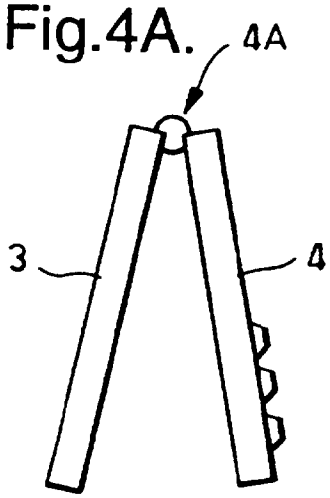
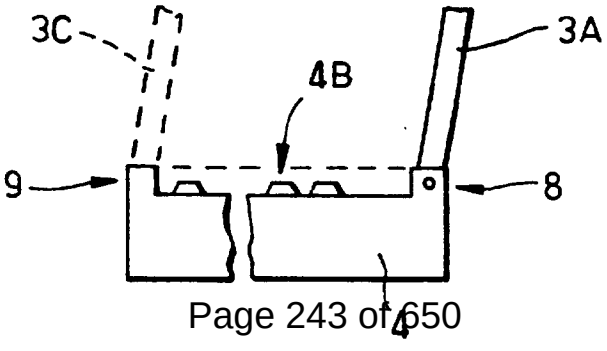


Fig.5.



NOTEBOOK COMPUTERS

This invention relates to notebook computers and in particular to notebook computers which, in addition to being usable in the portable, or free-standing, mode, facilitate use in a primary workstation arrangement at a workplace.

The technological advances in notebook screen technology, in particular the increased screen sizes which have become possible, mean that a notebook's own screen can be used as a primary display at a workstation, instead of for example a CRT monitor or another form of substantially non-portable display. However, the keyboard and mouse solutions of the notebook do not meet the current requirements for primary workstation input devices. When a notebook screen is used in a primary workstation context, external input devices must be used. Thus for example, the notebook computer is opened up in order to be able to view its screen and a separate primary workstation keyboard is employed as illustrated schematically in Figure 1. The keyboard may be connected to the notebook and/or other elements comprising the primary workstation by, for example, cables, infrared links, or the like. However, when the separate keyboard is disposed in front of the notebook in this manner, the distance between the user and the notebook screen is longer than is desirable for optimum viewing of the screen.

It is an object of the present invention to provide a means of achieving the optimum view distance between a notebook screen and a user employing a separate keyboard.

According to one aspect of the present invention there is provided a notebook computer comprising a body portion with a screen portion operatively connected thereto, wherein the screen portion is positionable relative to the body portion

such that it can be used in conjunction with a separate keyboard disposed at a distance from the screen portion corresponding to the optimum viewing distance for a user of the separate keyboard and closer to the screen portion than the depth of the body portion.

According to another aspect of the present invention there is provided a notebook computer comprising a body portion with a screen portion operatively connected thereto, wherein the screen portion is pivotable between a first position in which the notebook computer is closed, a second position in which the screen portion has been rotated through an angle of the order of 90° relative to the first position, and a third position in which the screen has been rotated through an angle of the order of 270° relative to the first position.

According to yet another aspect of the present invention there is provided a notebook computer comprising a body portion with a screen portion operatively connected thereto, wherein the screen is disconnectibly mounted to a back edge of the body portion and pivotable thereat between a first position in which the notebook computer is closed and a second position in which the screen has been rotated through an angle of the order of 90° relative to the first position, and wherein the screen is alternatively mountable to a front edge of the body portion in an orientation such that it extends substantially parallel to the second position.

Embodiments of the invention will now be described with reference to the accompanying drawings, in which:

Figure 1 illustrates, schematically a conventional notebook computer being used in combination with a separate keyboard;

Figure 2 illustrates schematically a notebook computer according to one embodiment of the present invention being used in combination with a separate keyboard;

Figure 3 illustrates highly schematically and not to scale a partial end view of a notebook computer according to the one embodiment of the present invention with the screen in the closed position; the normal (portable) open position (dashed lines) and the fully open position (dotted lines);

Figure 4 illustrates the notebook of Figure 3 with the screen in the fully open position and orientated for use (integral keyboard facing downwards) with an external keyboard;

Figure 4A illustrates another possible arrangement of the notebook of Figure 3, and

Figure 5 illustrates highly schematically and not to scale an end view of another embodiment of the invention in which the screen is normally hinged to the back of the computer body but is movable from that position to an alternative position (dashed lines) at the front of the computer body for use with an external keyboard.

Referring firstly to Figure 1, which illustrates a conventional notebook computer 1 being used with a primary workstation keyboard 2, the screen 3 of the notebook computer 1 is being used as the primary workstation display. In this set-up, the body 4 of the notebook computer can prevent the keyboard 2 being positioned close enough to the screen so that the user 5 is at the optimum viewing distance from the screen. The screen 3 is hinged to the back edge of body 4 in such a manner that when the notebook computer is opened for use there is an angle between them that will be referred to as of the order of 90°, although in practice it can be somewhat greater and will be such as to provide an optimum view of the screen.

In order to enable the keyboard 2 to be positioned closer to the screen 3 than previously possible, that is closer to the screen than the distance between the front and back edges of

the body ie its depth, it is proposed to arrange that the relative positions of the screen 3 and the body 4 of the notebook computer be changeable. One possible means of achieving this is to provide a hinge arrangement between the screen 3 and the body 4 at the back edge thereof that enables the notebook computer to be opened to such an extent that there is an angle between them which will be referred to as of the order of 270°, although in practice it can be somewhat greater in order to provide an optimum view of the screen. Such an arrangement is illustrated in Figure 2, in which the notebook computer has been opened up to the order of 270° and the body has been positioned on a work top with the integral keyboard facing downwards. Figure 3 illustrates very schematically, in order to indicate the principle, a partial end view of a notebook computer having a screen able to pivot about an axis 4A and open to such an extent, and indicating the closed position of the screen 3 relative to the body 4 in a solid line, the normal of the order of 90° viewing position of the screen in a dashed line 3A, and the order of 270° viewing position of the screen in a dotted line 3B. To enable the screen to be viewed with the image the right way up in the order of 270° orientation the body 4 must be disposed with the integral keyboard 4B downwards, as indicated in Figure 4.

In the order of 270° orientation illustrated in Figure 3 the image on the screen is the wrong way up when the body is disposed with the integral keyboard uppermost. If the image could be reversed (top to bottom) this order of 270° orientation could also be employed by, for example, disposing the body 4 at a higher level than the keyboard 2, for example, on some form of shelf, and with the integral keyboard uppermost. In such a case the orientation would be somewhat less than 270° for optimum viewing. Such an arrangement might be preferable in certain circumstances, particularly in connection with CD Roms or floppy disks, the drives for which may not operate in an upside down

configuration, as well as possibly being difficult to use when upside down. Instead of disposing the body on a shelf and angling the screen as appropriate, the opened out notebook computer could just be stood up as illustrated schematically in Figure 4A, in which the angle will be greater than 270° and the image will need reversing, top to bottom. Locking means could be provided to ensure that this angle is maintained.

In the arrangements illustrated in Figures 2, 3 and 4, a docking connection 6 can be disposed at the front of the body 4 in order to be accessible when the order of 270° orientation is employed (Figure 4), the docking connection being required when the screen is to be used as a primary workstation display. Connections 7 which are required when the notebook computer is to be used in the normal order of 90° orientation can be disposed at the back of the body as illustrated, these include parallel and serial ports. Locking means (not shown) are preferably provided in order to lock the screen into the desired orientation (90 or 270°).

An alternative possibility which permits the screen 3 and external keyboard 2 to be positioned closer together, and with the body the right way up, is to arrange that the screen 3 and body 4 are operatively connectible to one another both at the front and back edges of the body 4, as illustrated in Figure 5. At the back of the body is a hinge arrangement 8 permitting the screen to be closed down onto the keyboard 4B (as indicated by the dotted line) and disposed at the order of 90° orientation 3A (solid lines), and also to be disconnected therefrom, whereas at the front of the body there is an alternative hinge or other connection arrangement 9 permitting the screen to be operatively connected thereat and disposed in an orientation 3C equivalent to the order of 270° orientation referred to above, but which is actually an order of 90° orientation and parallel to orientation 3A, but which will be closer to the external keyboard, as indicated

by the dotted lines. In this arrangement the docking and other connections will not be covered by the screen in any orientation thereof and can thus be disposed in positions determined by other criteria.

A variant of the Figure 5 arrangement is as follows. As will be appreciated, such as from Figure 1, the screen portion 3 can be attached to the body portion 4 by means of two hinge arrangements. The screen portion is disconnectibly mounted to the back edge of the body portion, but instead of the alternative mounting position being at the front edge of the portion as in Figure 5, in a variant the alternative mounting position is also at the back edge, but with the left and right hinge connection positions interchanged, so that the picture side of the screen portion is then at the back, ie when regarding Figure 5 the image on the screen portion (in position 3A) is viewed from the right, rather than the left. If the wire connection between the screen and body portions is, say, in the middle of the bottom side of the screen, it need not be disconnected, rather "twisted" through 180°. If the wire connection is through one hinge and both hinge and wire are pivotable through 180°, the other hinge being disconnectible, the screen portion can readily be turned around. A separate support for the other hinge can be provided for such a variant. Alternatively, there can be a single hinge which is centrally disposed at the bottom side of the screen portion and with the wire connection extending through it, the whole hinge/wire arrangement being pivotable through 180° to present the image on the opposite side of the screen portion to the usual notebook configuration.

The arrangements proposed by the invention thus permit the screen of a notebook computer to be used as a primary workstation display, saving the cost of purchasing a CRT monitor or other display for the workstation, whilst allowing an external keyboard to be positioned close enough to the screen for optimum viewing thereof by a keyboard user.

CLAIMS

1. A notebook computer comprising a body portion with a screen portion operatively connected thereto, wherein the screen portion is positionable relative to the body portion such that it can be used in conjunction with a separate keyboard disposed at a distance from the screen portion corresponding to the optimum viewing distance for a user of the separate keyboard and closer to the screen portion than the depth of the body portion.

2. A notebook computer as claimed in Claim 1, wherein the screen portion is pivotable between a first position in which the notebook computer is closed, a second position in which the screen portion has been rotated through an angle of the order of 90° relative to the first position, and a third position in which the screen portion has been rotated through an angle of the order of 270° relative to the first position.

3. A notebook computer as claimed in Claim 2, wherein the screen portion is pivotably connected to a back edge of the body portion, wherein a docking connection is disposed at a front edge of the body portion, the depth of the body portion corresponding to the distance between the front and back edges of the body portion, and wherein in use with the external keyboard the screen portion is disposed in the third position.

4. A notebook computer as claimed in Claim 3, and wherein in use the body portion is disposed upside down on a work surface.

5. A notebook computer is claimed in Claim 3, including means for reversing the image top-to-bottom on the screen.

6. A notebook computer as claimed in Claim 1, wherein the screen portion is disconnectively mounted to a back edge of the body portion and pivotable thereat between a first position in which the notebook computer is closed and a second position in which the screen portion has been rotated through an angle of the order of 90° relative to the first position, and wherein the screen portion is alternatively mountable to a front edge of the body portion in an orientation such that it extends substantially parallel to the second position, the depth of the body portion corresponding to the distance between the front and back edges.

7. A notebook computer comprising a body portion with a screen portion operatively connected thereto, wherein the screen portion is pivotable between a first position in which the notebook computer is closed, a second position in which the screen portion has been rotated through an angle of the order of 90° relative to the first position, and a third position in which the screen has been rotated through an angle of the order of 270° relative to the first position.

8. A notebook computer comprising a body portion with a screen portion operatively connected thereto, wherein the screen is disconnectibly mounted to a back edge of the body portion and pivotable thereat between a first position in which the notebook computer is closed and a second position in which the screen has been rotated through an angle of the order of 90° relative to the first position, and wherein the screen is alternatively mountable to a front edge of the body portion in an orientation such that it extends substantially parallel to the second position.

9. A notebook computer substantially as herein described with reference to and as illustrated in any one of Figures 2 to 5 of the accompanying drawings.

The Patent Office

9

Application No: GB 9702544.9 **Examiner:** Matthew Gillard
Claims searched: All **Date of search:** 13 April 1997

Patents Act 1977
Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.O): G4A ADT

Int Cl (Ed.6): G06F 1/16

Other: On-line: WPI

Documents considered to be relevant:

Category	Identity of document and relevant passage		Relevant to claims
X	EP 0394879 A1	(SANYO). See figs 3, 4 & 11.	1 at least
X	US 5544005	(I. B. M.). See fig 1.	1 at least
X	US 4903221	(ZENITH). See fig 1.	1 at least

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.

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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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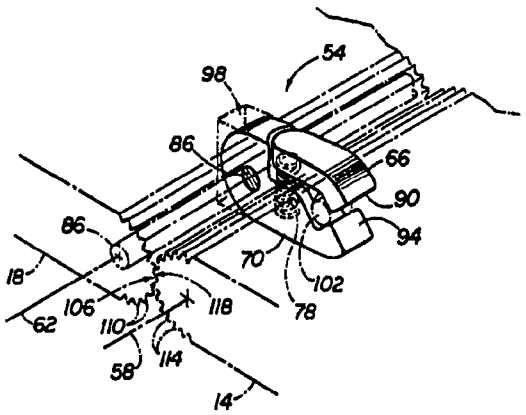
(71)(72) Applicant and Inventor: LANE, Jeffrey, P. [US/US]; 395 Otter Creek Court, Atlanta, GA 30328 (US).

(74) Agents: PRATT, John, S. et al.; Kilpatrick & Cody, Suite 2800, 1100 Peachtree Street, Atlanta, GA 30309-4530 (US).

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(57) Abstract

A modular, reconfigurable system designed to permit coupling and decoupling of devices or components (14, 18) of varying types, including portable computers or other electrical devices, is disclosed. The system also is adapted to rotate about two adjacent, parallel axes (58, 62) permitting components to be positioned throughout approximately 0-360 degrees. The components (14, 18) are coupled by a connector (54).

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MODULAR, RECONFIGURABLE DEVICES

FIELD OF THE INVENTION

This invention relates to modular devices and more particularly to reconfigurable portable computers and other electronic or similar apparatus.

BACKGROUND OF THE INVENTION

Technological advances in the computing, electronics, and telecommunications industries have created devices useful to an ever-expanding number of users in a wider variety of operating situations. Increased memory capacities, processing speeds, and telecommunications capabilities of "portable" computers, for example, have combined with decreased size and weight to contribute to greater use of these devices. The advent of multi-media apparatus and component commonality has also augmented the usefulness of many electronic devices, as has rapid improvement in quality and capability of individual components. These rapid improvements to components of an overall device have contributed to consumers desiring periodically to upgrade their systems merely by purchasing the improved components. Consumers also appear eager for access to reconfigurable components to meet the requirements of the varied locations and situations in which the components operate. Many existing electronic systems have components which can neither be decoupled nor reconfigured, however, and thus fail to address these and other consumer needs.

U.S. Patent No. 5,103,376 to Blonder (incorporated herein in its entirety by this reference), for example, provides a laptop computer having keyboard and display portions whose

positions relative to a user can be reversed. The computer includes a pair of dual-pivoting hinges, each capable of rotation about respective pins, to permit the reversal. According to the Blonder patent, however, the reversing portions are designed merely to facilitate information entry via both the keyboard and a graphics pen associated with the computer. As a result, neither the keyboard nor display is detachable from the remainder of the device, and their reconfigurability is severely limited.

U.S. Patent No. 5,034,858 to Kawamoto, et al., also incorporated herein in its entirety by this reference, discloses electronic equipment having a separable keyboard. The equipment also includes a display that can be both rotated about an axis and tilted into place about a perpendicular axis for use. As with that disclosed in the Blonder patent, however, the display cannot be detached from the main equipment body. Additionally, neither the Blonder nor Kawamoto patent contemplates rotation about two adjacent, parallel axes to permit reconfiguration of components throughout approximately 0-360°.

SUMMARY OF THE INVENTION

The present invention, by contrast, provides a modular, reconfigurable system designed to permit mechanical (and, if necessary, electrical) coupling and decoupling of devices or components of varying types. Because system elements can be decoupled, consumers can upgrade individual components as desired without having to purchase an entirely new system. Component redundancy can also be decreased, as a single electronic display, for example, can be coupled for use not only with computers but with appropriate audio-visual or

telecommunications equipment as well. In essence, the invention permits a user to "mix and match" electronic or other devices and components as needed.

The innovative system also is adapted to rotate about at least two adjacent, parallel axes. Consequently, the present invention permits components to be repositioned about each other throughout approximately 0-360°, allowing use of a visual display not only in a standard laptop computer format but also in formats facilitating use of the display as, for example, a television or telecommunications monitor or a pen-based computing tablet.

It is therefore an object of the present invention to provide a system composed of reconfigurable modules.

It is another object of the present invention to provide a modular system permitting coupling and decoupling of devices and components, particularly electronic devices and components.

It is also an object of the present invention to provide a system having two adjacent, parallel axes of rotation to facilitate component rotation about approximately 0-360°.

Other objects, features, and advantages of the present invention will become apparent with reference to the remainder of the written portion and the drawings of this application.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of an exemplary modular device incorporating the technology of the present invention shown in a nominally "open" position.

FIG. 2 is a perspective view of the device of FIG. 1 shown in a nominally "closed" position.

FIG. 3 is a fragmentary perspective view of a connector of the present invention.

FIG. 4 is a cross-sectional view of the connector of FIG. 3.

FIGS. 5-9 are a series of fragmentary side cross-sectional views of the device of FIG. 1 shown in various configurations.

FIG. 10 is a perspective view of the device of FIG. 1 having a support.

FIG. 11 is an exploded perspective view of a mechanism connected to the support of FIG. 10.

FIGS. 12-13 are a series of side elevational views of the device of FIG. 10 shown in various configurations.

FIG. 14 is a perspective view of an alternate coupling mechanism forming part of the present invention.

FIG. 15 is a perspective view of an alternate exemplary modular device incorporating the technology of the present invention shown in a nominally "open" position.

FIG. 16 is a perspective view of the device of FIG. 15 shown in a nominally "closed" position.

FIG. 17 is a perspective view of the device of FIG. 15 illustrating a coupling mechanism.

FIG. 18 is a perspective view of the device of FIG. 15 illustrating an alternate coupling mechanism.

FIGS. 19-28 are a series of side elevational views of an exemplary modular device incorporating the technology of the present invention shown in various configurations.

FIG. 29 is an elevational view of a position indicator that can be incorporated in the modular devices of the present invention.

DETAILED DESCRIPTION

FIGS. 1-2 illustrate generally an exemplary modular device 10 consistent with the present invention. As shown in FIG. 1, device 10 may be a portable computer comprising first module 14 (e.g. a keyboard) and second module 18 (e.g. a display). Also appearing in FIG. 1 are disk 22, a magnetic storage device which may be loaded into port 26, and compact disc 30 (which may be loaded into another port not shown in FIG. 1). An electronic mouse or other pointer 32 adapted to convert manual pressure to electronic signals capable of moving a cursor about the visual display 35 provided by second module 18 may also be included, as may video camera 34. FIG. 1 illustrates device 10 in a nominally "open" position permitting access both to visual display 35 and keys 36, while FIG. 2 shows device 10 in a nominally "closed" position. Torque-generating device 37, such as a spring, is designed to retain second module 18 in a selected position relative to first module 14 when device 10 is in use.

Also shown in FIG. 1 (and FIG. 29) as part of second module 18 is position-indicating mechanism 38. Mechanism 38 includes a moveable conductor 42 (such as liquid mercury) in a spherical cavity 46 having contacts 50 spaced about its periphery. Conductor 42 responds via gravitational forces to spatial reorientation of mechanism 38 by moving relative to contacts 50 (to contact at least one contact 50 to close its respective circuit). Including mechanism 38 as a component of either first or second modules 14 or 18 would thus permit it to indicate the spatial orientation of that module. Doing so would also allow mechanism 38 to assist device 10 (and its associated software) in determining, for example, whether the information

to appear on visual display 35 should be in "landscape" or "portrait" position as the visual display 35 is spatially configured, the direction in which to move a curser of second module 18 when a visual display, or whether to render keys 36 of first module 14 inoperable when unused.

One or more connectors 54 operate to attach first and second modules 14 and 18. As shown in FIG. 3, for example, first module 14 defines a primary axis of rotation 58, while second module 18 defines a corresponding primary axis of rotation 62 parallel to axis 58. In some embodiments of device 10, the size of connector 54 is designed to be approximately equal to the combined thicknesses of first module 14 and second module 18. As a result, in these embodiments the size of connector 54 is significantly less than the length of either first module 14 or second module 18, placing parallel axes 58 and 62 essentially adjacent each other. Connector 54 mechanically couples first module 14 and second module 18 and can provide electrical coupling of the modules as well. Alternatively, first and second modules 14 and 18 may be coupled electrically using conventional means.

FIGS. 3-4 detail connector 54 of the present invention. Connector 54 comprises (moveable) leg 66, (fixed) leg 70, pin 74, and spring 78 and defines tube 82 for permanently receiving axle 86 embedded within second module 18. Leg 66 is designed to pivot about pin 74, with its flared end 90 biased by spring 78 toward a similar flared end 94 of leg 70. As a consequence, legs 66 and 70 of connector 54, when fitted into slots 98 of first module 14, snap, or clamp, onto axle 102 of that module and thereby connect first and second modules 14 and 18. The camming action of connector 54

forces axles 82 and 94 toward each other, facilitating attachment of the modules.

Edge 106 of second module 18 may also include teeth 110 which are complementary to and designed to engage corresponding teeth 114 of edge 118 of first module 14. If present, teeth 110 and 114 permit more consistent rotation of first and second modules 14 and 18. Engaging the teeth 110 and 114 also permits use of a torque-generating device 37 in only one of first and second modules 14 and 18, providing a commensurate savings in space, weight, and cost. Use of teeth 110 and 114 may also reduce stress on connectors 54, stabilizing device 10 when in use by supporting the upper of first or second modules 14 or 18 along a greater length of the lower of axes 58 or 62. Teeth 110 and 114 additionally provide a convenient hand-grip surface for carrying first and second modules 14 and 18 when device 10 is configured as in FIG. 2.

Although slots 98 are shown in FIGS. 1-3 as formed at edge 118 of first module 14, they may additionally or alternatively appear along other edges or portions of first module 14 (e.g. slots 98A of FIG. 1). If so placed, the slots would permit device 10 to be configured in other ways, including, for example, as illustrated in FIGS. 22-23. Connector 54 could, moreover, be permanently connected to axle 102 rather than axle 86 or not permanently connected to either.

FIGS. 5-9 show first and second modules 14 and 18 of device 10 in various configurations accessible using the present invention. FIG. 5 shows second module 18 in an unrotated, or nominally closed, position relative to first module 14, placing the first and second modules 14 and 18 in parallel planes respectively intersecting axes 58 and 62. This position protects visual display

35 and keys 36 from damage by securing them within the interior of device 10. FIG. 6, by contrast, illustrates second module 18 rotated about axis 62 to form an obtuse angle relative to first module 14 (described above as a nominally "open" position), positions representative of those assumed by the displays and keyboards of many operating laptop computers.

FIG. 7 illustrates an alternative positioning, in which second module 18 has been rotated approximately 180° relative to first module 14 to expose visual display 35. In FIG. 8, the rotation of second module 18 exceeds 270°, useful particularly when only visual display 35 need be accessible. FIG. 9, finally, shows second module 18 rotated approximately 360° relative to first module 14 (or vice-versa), exposing visual display 35 for use as, for example, a tablet for pen-based computing. Providing an upper surface 120 for keys 36 of first module 14 essentially flush with (or not protruding beyond) its upper surface 121 reduces the likelihood of damage to keys 36 in this configuration.

FIG. 10 details support 122 that may be incorporated into device 10. Support 122 rotates away from second module 18 and is held in position by mechanism 126 either to brace second module 18 (see FIG. 12) or elevate, for instance, a keyboard used as first module 14 (see FIG. 13) to facilitate information or data entry. By positioning support 122 other than at edge 106 of second module 18, the edge 106 continues to be available for locating ports, jacks, or other useful or necessary devices. If present, knobs 128 of support 122 may be fitted into recesses 130, with key 134, spring 138, and tension-adjustment screw 142 of mechanism 126 utilized to retain them in place. As shown in FIG.

11, key 134 includes radial teeth 146 that engage similar teeth 150 on knob 128, with protrusion 154 of key 134 fitting into keyway 158 for rotational stability.

FIG. 14 details an alternative connector 162, such as a ball joint, of the present invention. Unlike connector 54, connector 162 permits rotation about an axis perpendicular to axes 58 and 62. This in turn increases the versatility of device 10, allowing a wider variety of possible configurations to be assumed without having to detach first and second modules 14 and 18.

FIGS. 15-19 illustrate more of the modular, reconfigurable nature of devices made according to the present invention. Shown in FIGS. 15-19 is device 210, which may include first, second, and third modules 214, 218, and 222, respectively. First and second modules 214 and 218 may be connected as described earlier or using either of the mechanical connectors 226 and 230 shown in FIGS. 17 and 18. If mechanical connectors 226 or 230 are employed, electrical connections between first and second modules 214 and 218 may be made using conventional ribbon cable 234, for example. Third module 222 may be connected to either first module 214 or second module 218 (and switched back and forth as desired), with slots 238 along edges 242 and 246 receiving connectors 250. Although keys 254 appear on first module 214 and visual display 258 is shown on second module 218, either or both modules could be electronic tablets, videotape or compact disc players, radios, television receivers, video game players, or other entertainment, educational, or scientific instrumentation modules. Among other devices conceivable as first, second, and third modules 214, 218, and 222 are communications modules

(including cellular telephones, portable facsimile, copying, scanning, and printing devices, digital dictaphones), digital still or video cameras, digital transducers and data recorders, bar-code readers, and other electronic equipment. FIG. 16 illustrates recess 260 formed when device 210 is nominally "closed," which provides an area to which a user can apply pressure when opening the device 210 manually.

FIGS. 19-28 detail various couplings of the first and second modules 14 and 18 (or 214 and 218) useful with the present invention. In the nominally closed position of FIG. 19, second module 18 is unrotated relative to first module 14, protecting visual display 35 of second module 18 from damage by securing it within the interior of device 10. FIG. 27 shows second module 18 rotated approximately 360° relative to first module 14 (or vice-versa), exposing visual display 35 for use as, for example, a tablet for pen-based computing. FIG. 21 illustrates an alternative positioning, in which second module 18 has been rotated approximately 180° relative to first module 14 to expose visual display 35. Other alternative positionings involving rotation of second module 18 about axis 62 are detailed in FIG. 20 (in which second module 18 is rotated more than 90° to provide a standard "desktop" orientation) and in FIGS. 25 and 28 (in which second module 18 is rotated more than 270°, when only the visual display 35 need be accessible).

FIG. 22, 23, and 24 detail additional alternative positionings of first module 14 and second module 18. Detaching connector 54 from first module 14 and reattaching it about a secondary axis 262 of that module (if first module 14 is adapted for such axis to be present) permits

device 10 to be configured as shown in FIG. 22, while thereafter detaching connector 54 from second module 18 and reattaching it about secondary axis 266 (again if that module is adapted to permit attachment about the axis) reconfigures device 10 as illustrated in FIG. 23. Similarly, reattaching connector 54 about secondary axis 266 of second module 18 while retaining its connection about axis 58 of first module 14 configures device 10 according to FIG. 24. FIG. 26, finally, illustrates the detachable mechanical connection between first module 14 and second module 18, permitting visual display 35 to be visible and device 10 to operate with merely an electrical connector 270 between the first and second modules 14 and 18.

The foregoing is provided for purposes of illustrating, explaining, and describing embodiments of the present invention. Modifications and adaptations to these embodiments will be apparent to those skilled in the art and may be made without departing from the scope or spirit of the invention.

I claim:

1. A modular, reconfigurable system comprising:
   a. a first electronic module defining a first axis of rotation;
   b. a second electronic module defining a second axis of rotation parallel to the first axis of rotation;
   c. means for connecting the first and second electronic modules; and
   d. means for retaining the second electronic module in a selected position relative to the first electronic module.

2. A system according to claim 1 in which the connecting means intersects the first and second axes of rotation and permits rotation of the second electronic module approximately 0-360° about the first electronic module.

3. A system according to claim 1 further comprising means for hindering the first electronic module from rotating about the first axis of rotation.

4. A system according to claim 1 further comprising means for hindering the second electronic module from rotating about the second axis of rotation.

5. A system according to claim 1 in which the connecting means comprises means for detachably connecting the first and second electronic modules.

6. A system according to claim 1 in which the first electronic module defines a secondary axis of rotation.

7. A system according to claim 6 in which the connecting means intersects the secondary axis of rotation.

8. A system according to claim 1 in which:
   a. the first electronic module comprises a curved surface radial to the first axis of rotation, which curved surface includes a plurality of first teeth; and
   b. the second electronic module comprises a curved surface radial to the second axis of rotation, which curved surface includes a plurality of second teeth complementary to and engaging the first teeth.

9. A system according to claim 1 in which the second electronic module comprises an integral position indicator, which position indicator comprises:
   a. a fluid conductor;
   b. a housing for the conductor, which housing:
      i. is adapted to permit the conductor to move responsive to reorientation of the second electronic module; and
      ii. comprises a plurality of electrical contacts, each adapted to contact the fluid conductor as a function of the orientation of the second electronic module.

10. A system according to claim 1 further comprising means, connected to the second electronic module, for supporting the first electronic module.

11. A system according to claim 10 in which the supporting means comprises:
    a. an extension adapted to rotate about the second axis of rotation; and
    b. means for retaining the extension in a selected position.

12. A system according to claim 1 in which the first electronic module:
    a. defines a surface; and
    b. comprises a keyboard having a plurality of keys, each key having:
        i. an upper surface not protruding beyond the surface of the first electronic module; and
        ii. a recessed portion for accommodating a fingertip of a user.

13. A system according to claim 12 in which the first electronic module further comprises an electronic cursor-moving device comprising:
    a. an upper surface flush with the surface of the first electronic module, for receiving pressure from the fingertip of the user; and
    b. means for translating the fingertip pressure into motion of an electronic cursor.

14. A system according to claim 1 further comprising means for selectively hindering the first electronic module from rotating about the first axis of rotation and in which the connecting means:
    a. intersects the first and second axes of rotation; and
    b. comprises means for detachably connecting the first and second electronic modules.

15. A system according to claim 14 in which the first electronic module defines a secondary axis of rotation and the connecting means intersects the secondary axis of rotation.

16. A system according to claim 14 further comprising means, connected to the first electronic module, for supporting the first electronic module, which supporting means comprises:
    a. an extension adapted to rotate about the first axis of rotation; and
    b. means for retaining the extension in a selected position.

17. A system according to claim 1 in which (1) the second electronic module defines a third axis of rotation perpendicular to the first and second axes of rotation and (2) the connecting means permits rotation of the second electronic module about the third axis of rotation.

18. A system according to claim 1 in which the connecting means comprises:

a. a fixed leg connected to the second electronic module and having a length and a recess;
b. a spring positioned within the recess;
c. a pin spanning at least a portion of the length of the fixed leg; and
d. a moveable leg contacted by the spring and adapted to pivot about the pin.

19. A system according to claim 11 in which the extension-retaining means comprises a key positioned within the second electronic module and having a surface adapted to engage the extension.

20. A system according to claim 1 in which the first electronic module comprises a generally curved surface radial to the first axis of rotation, which generally curved surface comprises a recess.

21. A modular system comprising:
a. a keyboard;
b. a visual display mechanically and electrically connected to the keyboard; and
c. a telephone mechanically connected to at least one of the keyboard and visual display.

22. A modular, reconfigurable system comprising:
a. a first module defining:
i. a first primary axis of rotation;
ii. a secondary axis of rotation; and
iii. a curved surface radial to the first primary axis of rotation,

which curved surface includes a plurality of first teeth;

b. a second module defining:
   i. a second primary axis of rotation parallel to the first primary axis of rotation; and
   ii. a curved surface radial to the second primary axis of rotation, which curved surface includes a plurality of second teeth complementary to and engaging the first teeth;

c. means, intersecting at least two of the first and second primary axes of rotation and the secondary axis of rotation, for detachably connecting the first and second modules;

d. torque-generating means for retaining the second module in a selected position relative to the first module;

e. means for selectively hindering the first module from rotating about the first primary axis of rotation; and

f. means, connected to the first module, for supporting the first module, which means comprises:
   i. an extension adapted to rotate about the first primary axis of rotation; and
   ii. means for retaining the extension in a selected position.

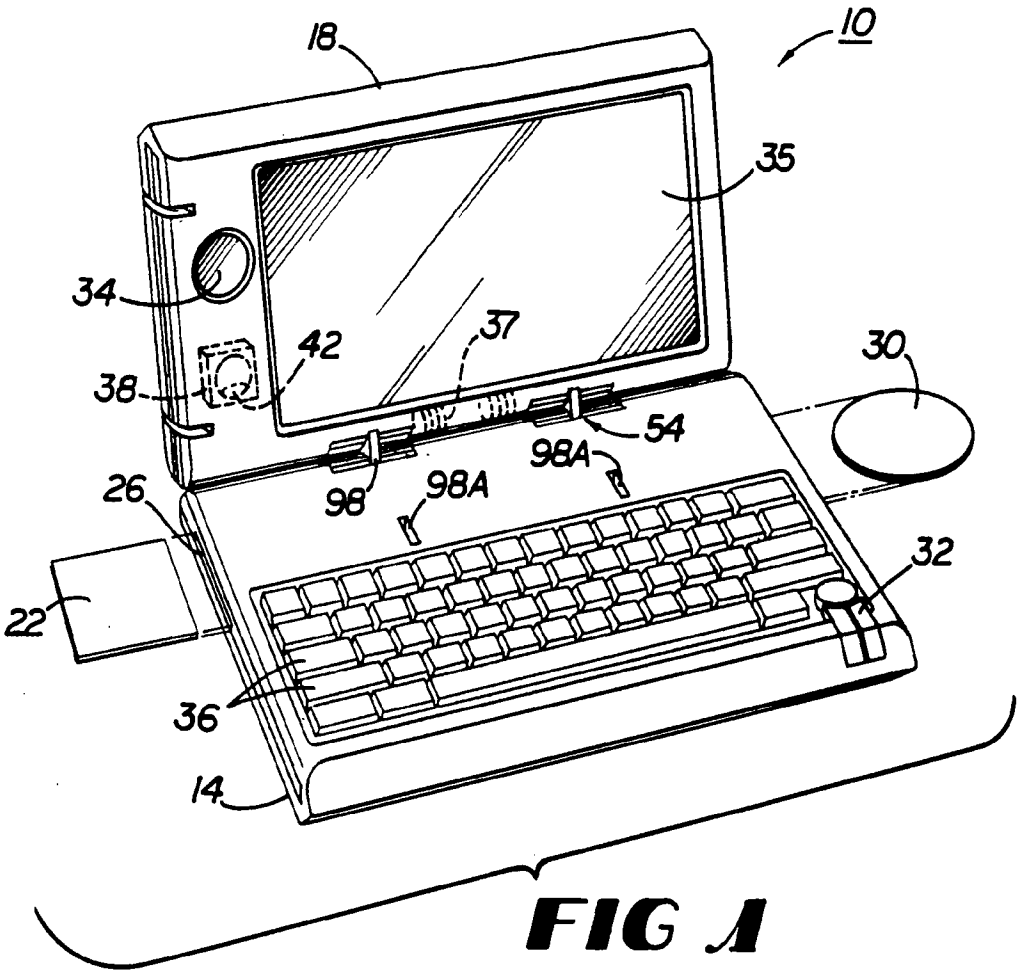


FIG 1

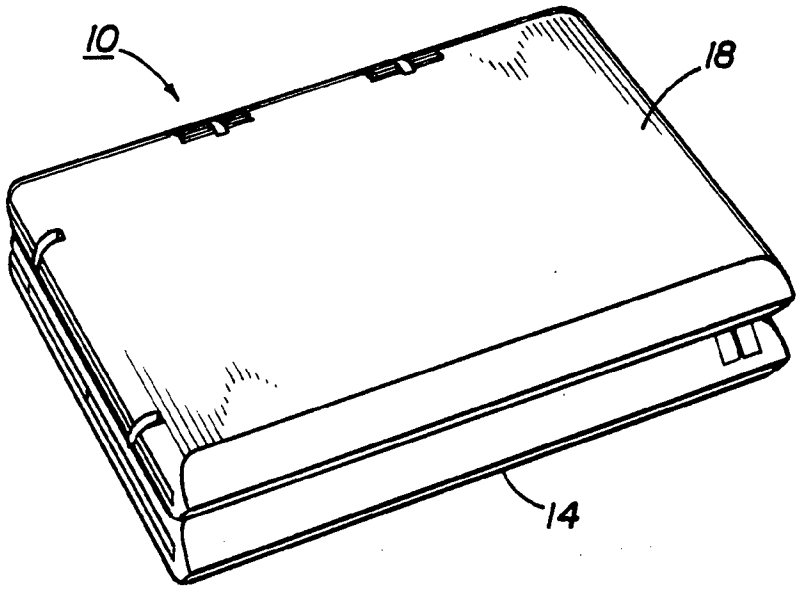


FIG 2

SUBSTITUTE SHEET (RULE 26)

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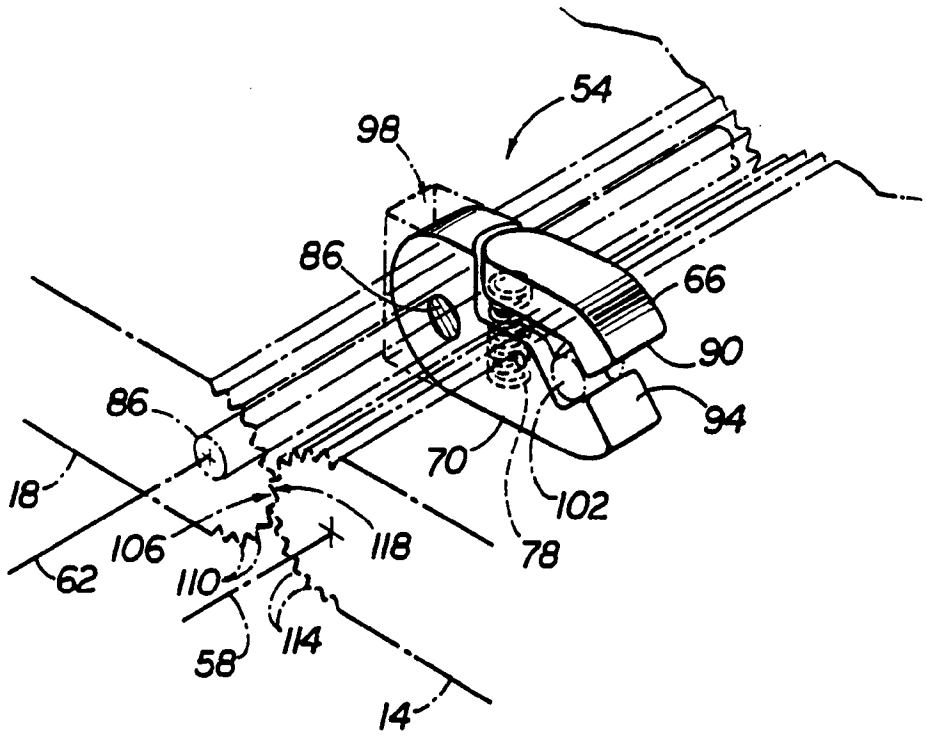

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FIG 3

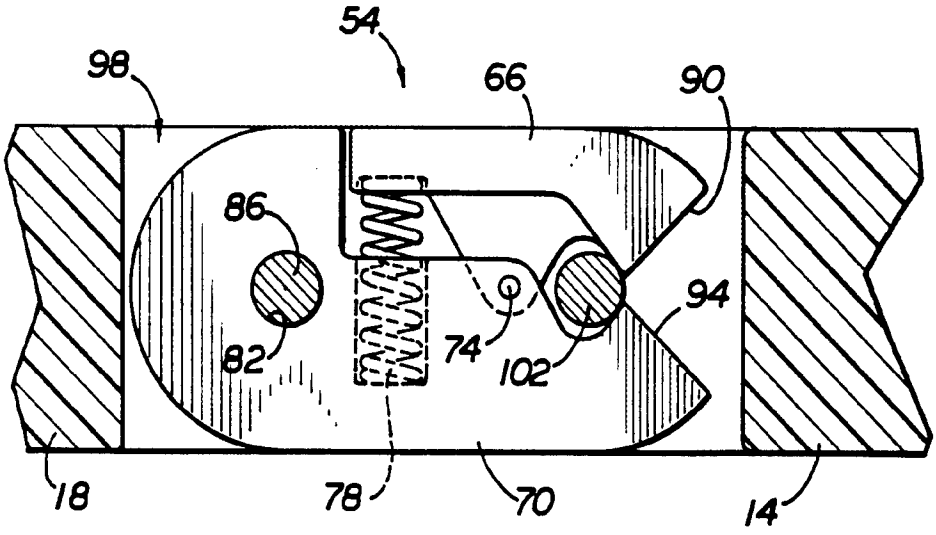

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FIG 4

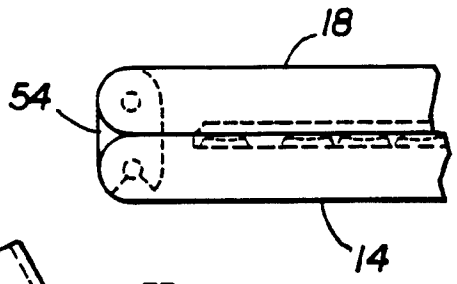


FIG 5

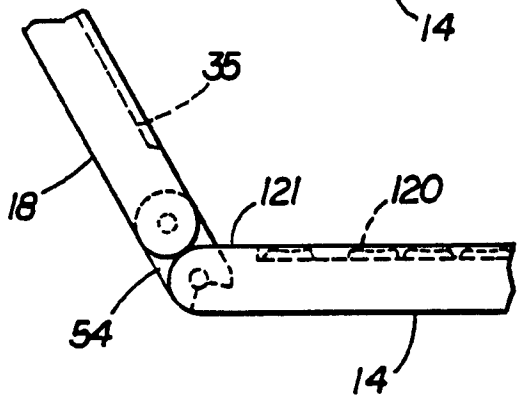


FIG 6

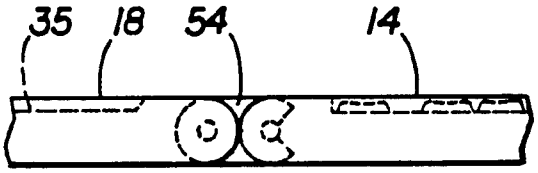


FIG 7

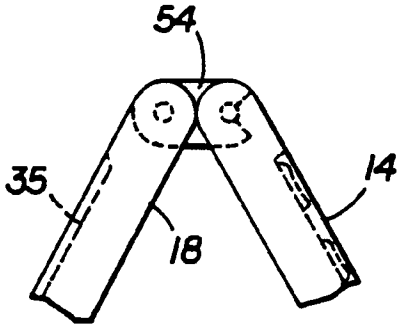


FIG 8

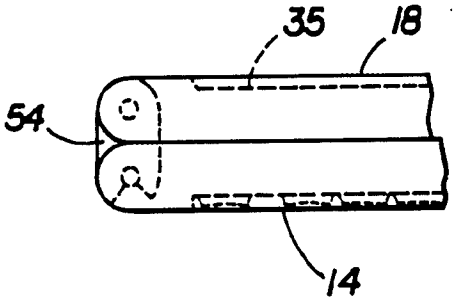
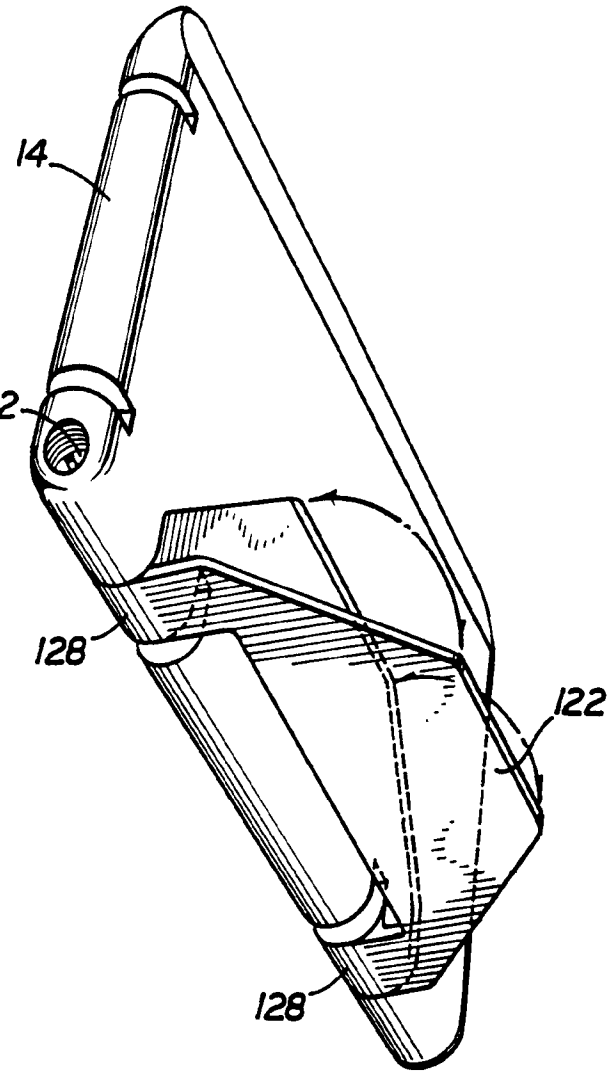


FIG 9

FIG 10



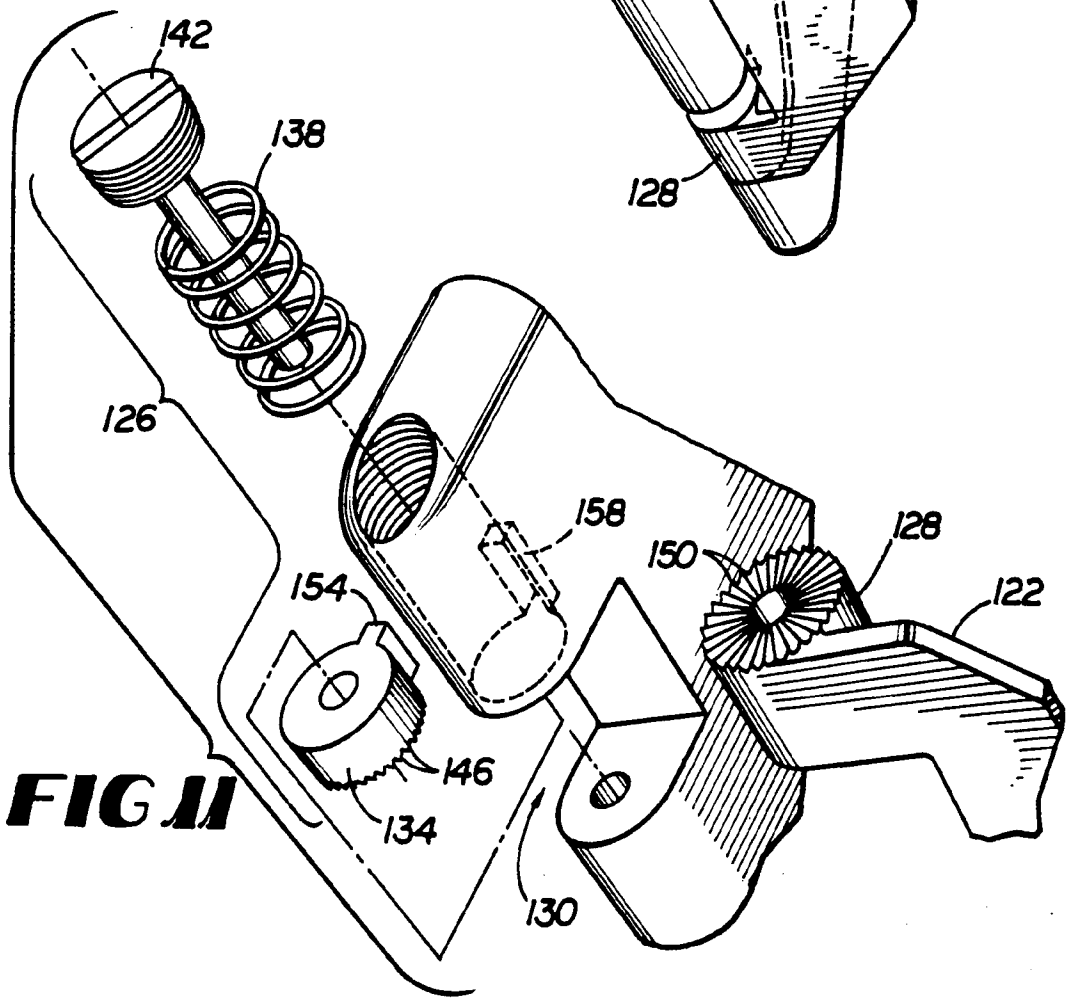


FIG 11

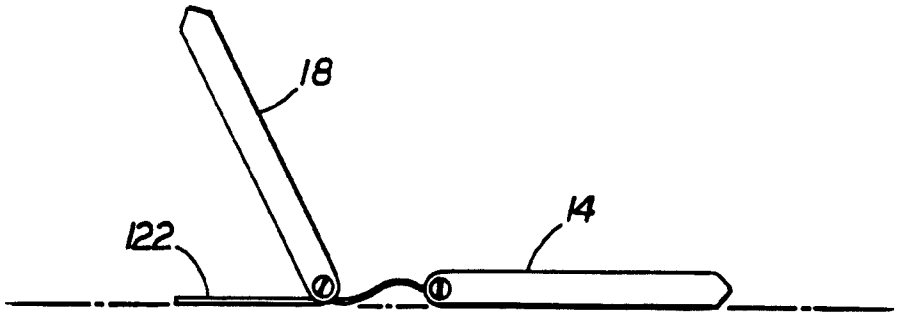


FIG 12

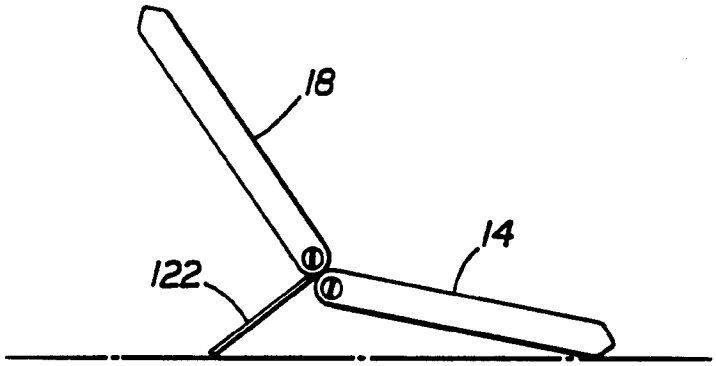


FIG 13

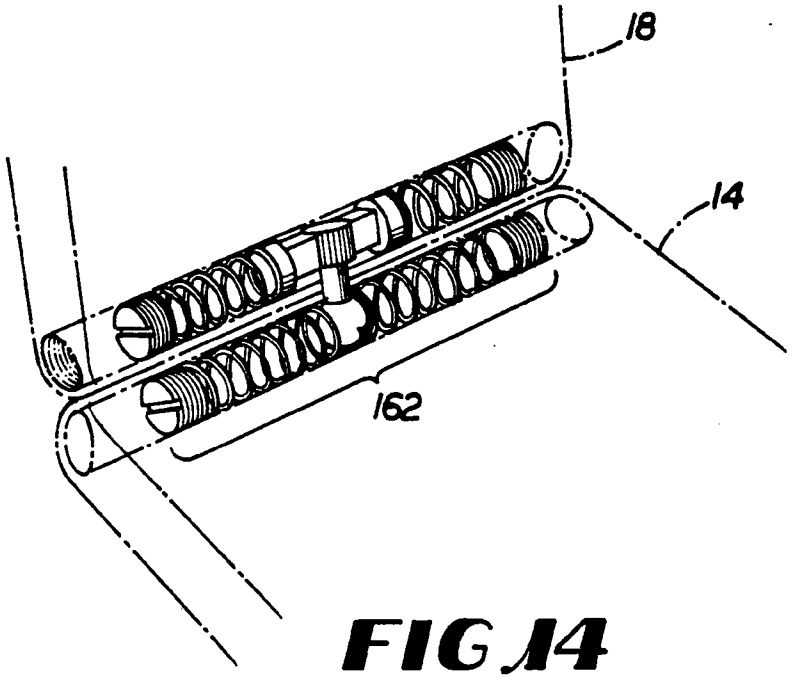


FIG 14

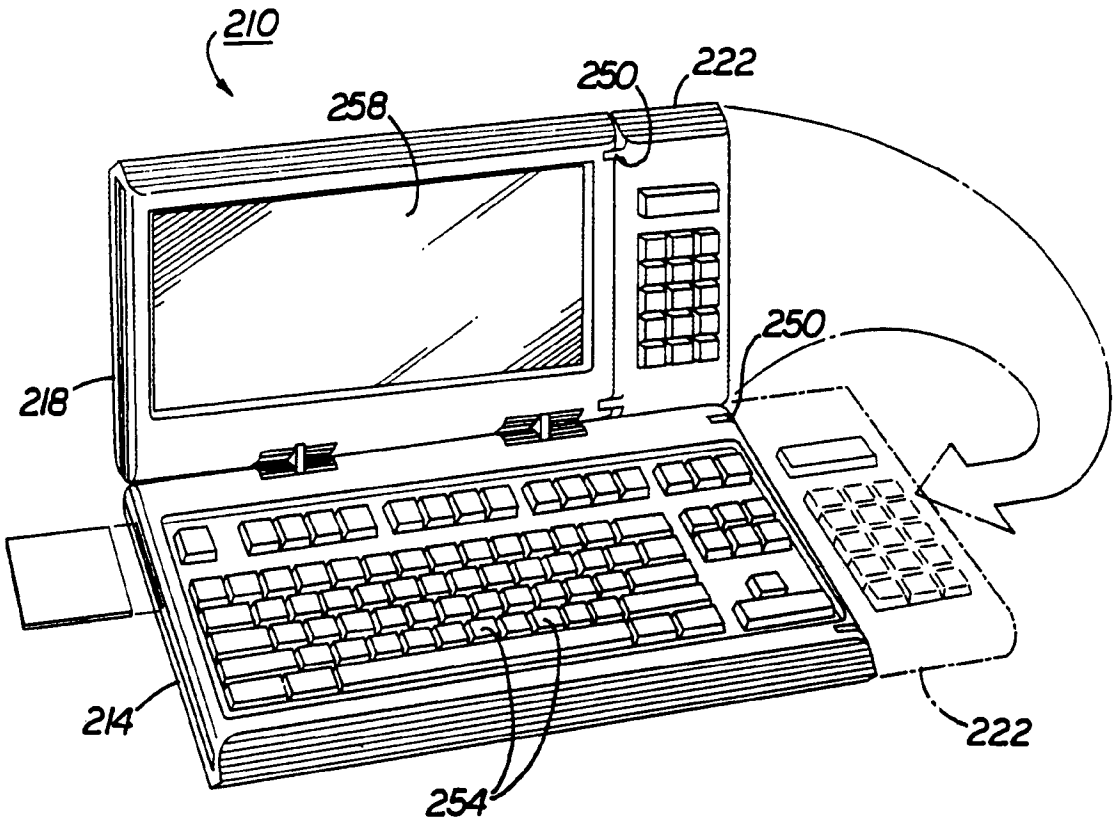


FIG 15

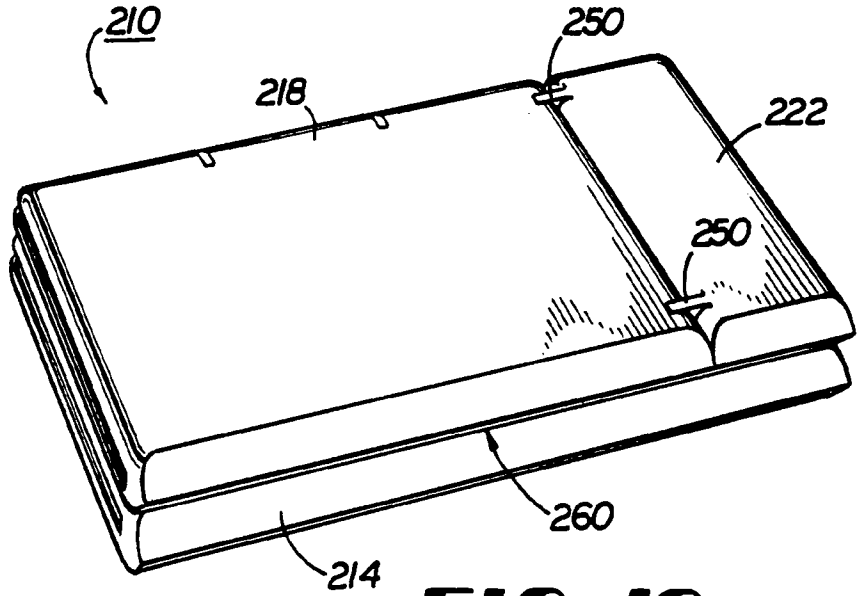


FIG 16

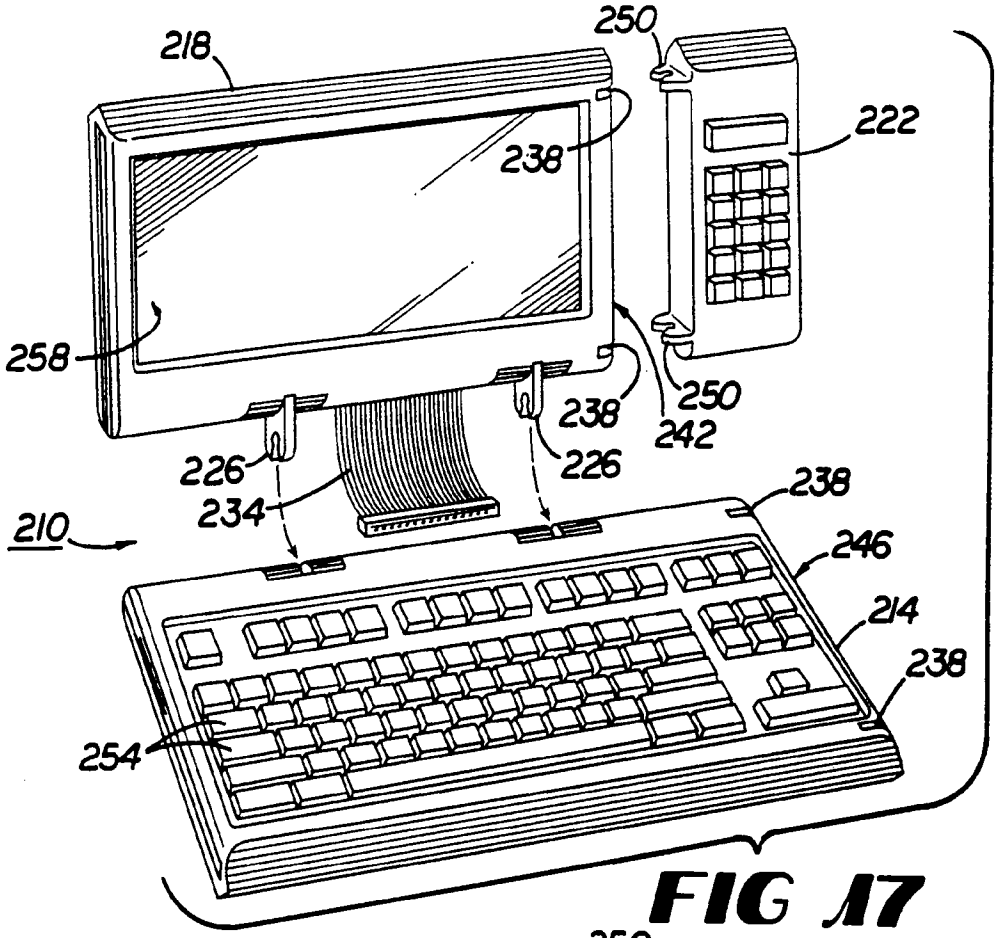

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FIG 17

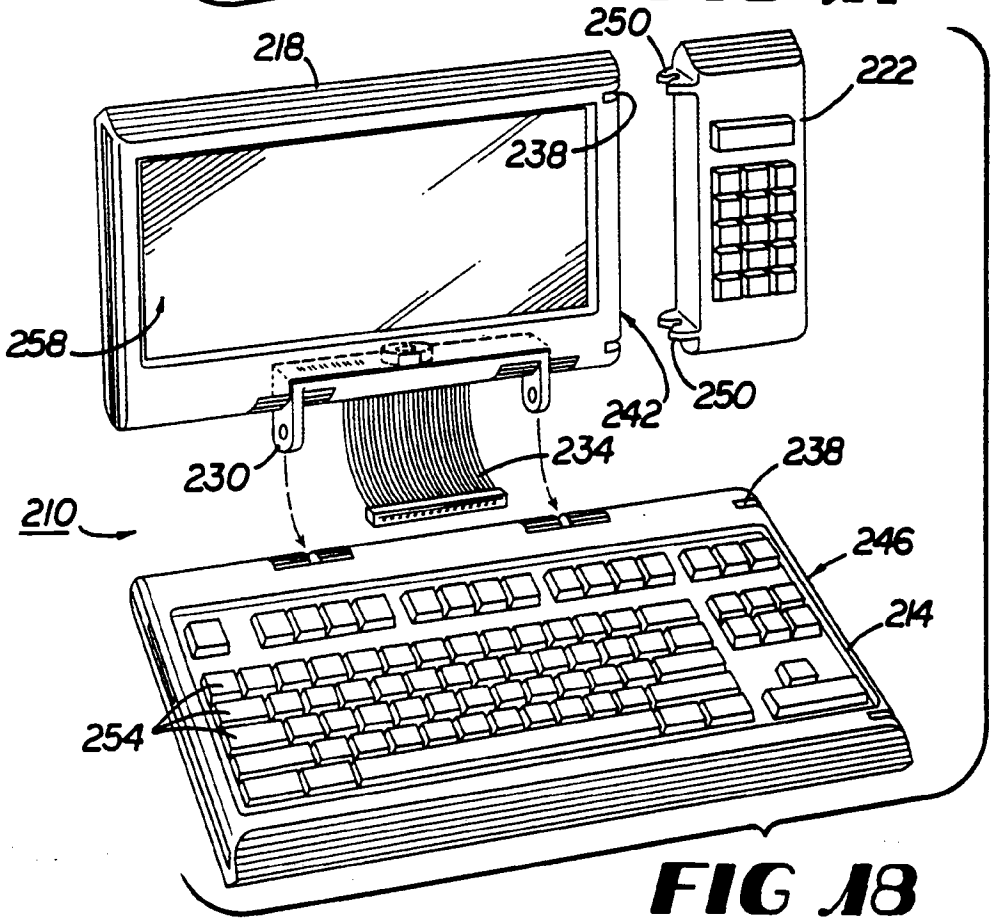

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FIG 18

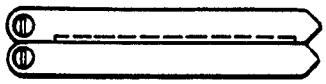


FIG 19

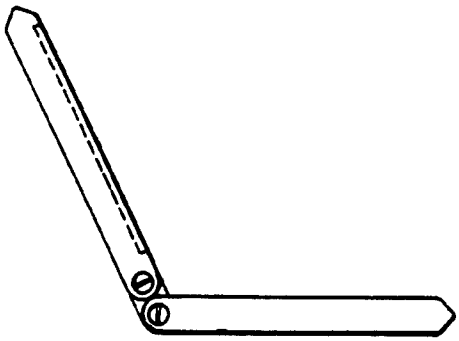


FIG 20



FIG 21

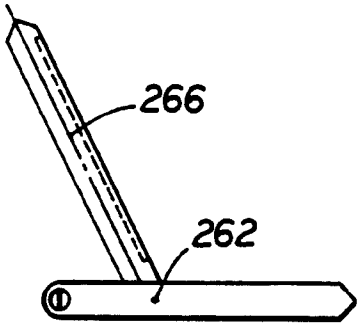


FIG 22

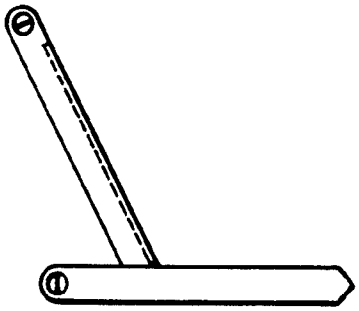


FIG 23

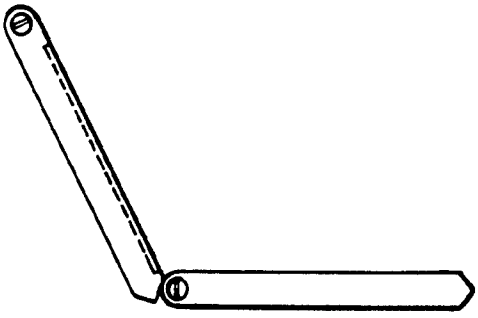


FIG 24

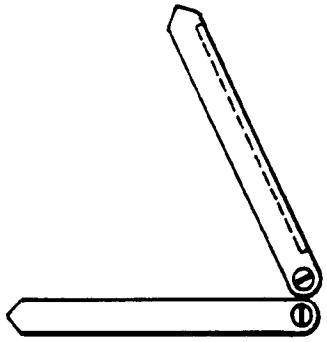


FIG 25

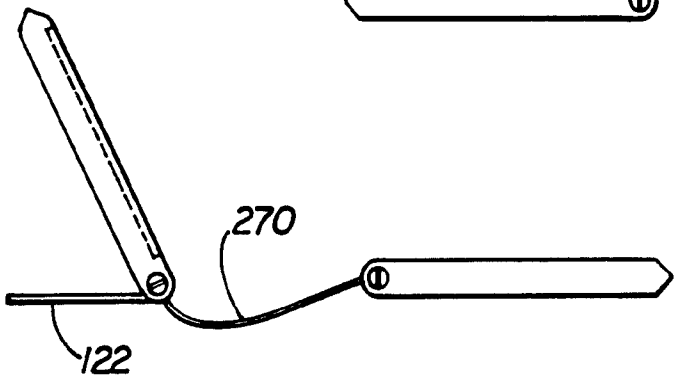


FIG 26

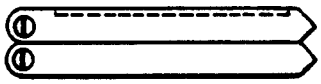


FIG 27

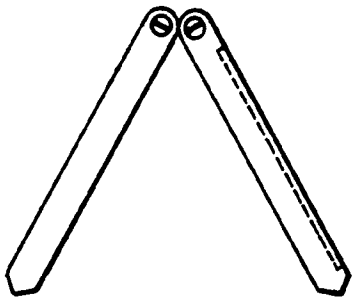


FIG 28

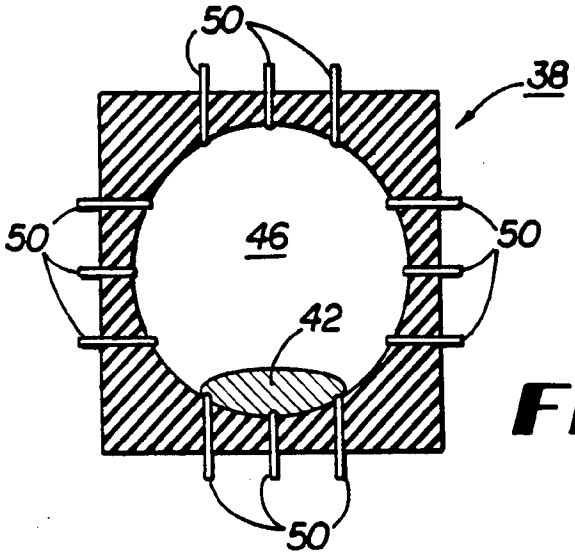


FIG 29

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US95/02468

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :G06F 1/16; H05K 7/12

US CL :361/683

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 361/680-683; 364/708.1; 439/928

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US, A, 5,268,817 (MIYAGAWA ET AL) 07 December 1993, Figures 8A-11B and column 6, line 66- column 9, line 59.	1-5, 14 --- 6, 7, 15, 16
Y	US, A, 5,034,858 (KAWAMOTO ET AL) 23 JULY 1991, Figures 9-15 and column 4, line 1- column 5, line 23.	6, 7, 15
Y	US, A, 5,235,495 (BLAIR ET AL) 10 August 1993, see the entire document.	16

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

06 JUNE 1995

Date of mailing of the international search report

10 JUL 1995

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

MICHAEL W. PHILLIPS

Telephone No. (703) 308-3191

Form PCT/ISA/210 (second sheet)(July 1992)★

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US95/02468

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Extra Sheet.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-7, 14-16, and 22

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING
This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s)1-7, 14-16, and 22, drawn to a system having the special technical feature of a means for detachably connecting modules.
Group II, claim 8, drawn to a system having the special technical feature of teeth.
Group III, claim 9, drawn to a system having the special technical feature of a position indicator.
Group IV, claims 10, 11, and 19, drawn to a system having the special technical feature of means for supporting.
Group V, claims 12 and 13, drawn to a system having the special technical feature of a keys with a recessed portion for accommodating a fingertip.
Group VI, claim 17, drawn to a system having the special technical feature of a third axis of rotation.
Group VII, claim 18, drawn to a system having the special technical feature of a fixed leg.
Group VIII, claim 20, drawn to a system having the special technical feature of a recess.
Group IX, claim 21, drawn to a system having the special technical feature of a telephone.
The inventions listed as Groups I-IX do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: a special technical feature is a technical feature which defines a contribution over the prior art. The technical features in claims 1-4 are not special technical feature because they do not define a contribution over the prior art as shown by Figures 8A-11B of U. S. Patent No. 5,268,817 to Miyagawa et al., issued 07 December 1993. These Figures show two modules connected, retained, and hindered from rotation as claimed in claims 1-4 (and also claim 6). Thus claim 5 is the first claim with a special technical feature, i.e. a means for detachably connecting modules.

Groups II-IX do not include the special technical feature of a means for detachably connecting modules. Thus unity of invention is lacking.

ADVANCE E-MAIL

PCT

From the INTERNATIONAL BUREAU

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

To:

GRADY, Matthew, H.
Lowrie, Lando & Anastasi, LLP
One Main Street, Eleventh Floor
Cambridge, MA 02142
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)*
14 October 2010 (14.10.2010)

Applicant's or agent's file reference
L2039-7004WO

IMPORTANT NOTICE

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2009/039117	01 April 2009 (01.04.2009)	01 April 2008 (01.04.2008)

Applicant
LITL, LLC et al

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

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

Facsimile No. +41 22 338 82 70

Authorized officer
Beate Giffo-Schmitt

e-mail: pct@wipo.int

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference L2039-7004WO	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2009/039117	International filing date *(day/month/year)* 01 April 2009 (01.04.2009)	Priority date *(day/month/year)* 01 April 2008 (01.04.2008)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant LITL, LLC		

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

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

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

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

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

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

	Date of issuance of this report 05 October 2010 (05.10.2010)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Beate Giffo-Schmitt e-mail: pt03.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
GRADY MATTHEW H

LOWRIE, LANDO & ANASTASI, LLP ONE MAIN STREET, ELEVENTH FLOOR CAMBRIDGE MA 02142
USA

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing *(day/month/year)* **28 SEPTEMBER 2009 (28.09.2009)**

Applicant's or agent's file reference
A2029-7004WO

FOR FURTHER ACTION
See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2009/039117	**01 APRIL 2009 (01.04.2009)**	01 APRIL 2008 (01.04.2008)

International Patent Classification (IPC) or both national classification and IPC

G06F 3/048(2006.01)i, G06F 3/14(2006.01)i

Applicant

AQUENT, LLC et al

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

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

2. **FURTHER ACTION**

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

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

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR	Date of completion of this opinion	Authorized officer
Korean Intellectual Property Office Government Complex-Daejeon, 139 Seonsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	28 SEPTEMBER 2009 (28.09.2009)	JEONG, Jae Woo Telephone No.82-42-481-5718

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2009/039117

Box No. I Basis of this opinion

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

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

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

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

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

   a. type of material

   ☐ a sequence listing

   ☐ table(s) related to the sequence listing

   b. format of material

   ☐ on paper

   ☐ in electronic form

   c. time of filing/furnishing

   ☐ contained in the international application as filed.

   ☐ filed together with the international application in electronic form.

   ☐ furnished subsequently to this Authority for the purposes of search.

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

5. Additional comments:

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

☐ the entire international application

☒ claims Nos. 99

because:

☐ the said international application, or the said claims Nos. _____ relate to the following subject matter which does not require an international search *(specify)*:

☒ the description, claims or drawings *(indicate particular elements below)* or said claims Nos. 99 are so unclear that no meaningful opinion could be formed *(specify)*:

In claim 99, what the description of "as described above" points is so unclear that the technical feature of claim 99 is not clarified.

☐ the claims, or said claims Nos. _____ are so inadequately supported by the description that no meaningful opinion could be formed *(specify)*:

☒ no international search report has been established for said claims Nos. 99

☐ a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:

☐ furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Istructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.

☐ furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Istructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.

☐ pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rule 13ter.1(a) or (b).

☐ a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.

☐ the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.

☐ See Supplemental Box for further details.

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

1. Statement

Novelty (N)	Claims	1 - 98, 100 - 123	YES
	Claims	None	NO
Inventive step (IS)	Claims	1 - 98, 100 - 123	YES
	Claims	None	NO
Industrial applicability (IA)	Claims	1 - 98, 100 - 123	YES
	Claims	None	NO

2. Citations and explanations :

Reference is made to the following documents cited in the ISR.

D1 : US 2005-210399 A1 22.09.2005

D1 discloses, in a computing device, a method which comprises dividing content into regions, displaying a plurality of the regions together in a reduced size, detecting a request to display a selected one of the regions, and displaying the selected region in a size that is expanded relative to the reduced size.

1. Novelty and Inventive step

Claim 1

Claim 1 of the present invention relates to a graphical user interface (GUI) displayed on a computer system responsive to computer focus and execution, which comprises a first visual representation configured to display digital content, a focus visual representation configured to display the first visual representation in a focused state, an execution component configured to execute a first transformation from the first visual representation into the focus visual representation responsive to computer focus on the first visual representation, a mapping from at least one of the first visual representation and the focus visual representation to a first view including the digital content, and the execution component further configured to execute the mapping in response to execution of at least one of the first and focus visual representation.

Claim 1 of the present invention and document D1 that is the closest prior art to the present invention, relate to the same subject matter of the GUI for focusing visual representation of selected image on display screen. However, D1 does not disclose the mapping in response to execution of at least one of the first and focus visual representation. which is the key technical feature of claim 1. Therefore, the invention of claim 1 is considered to be novel under PCT Article 33(2).

Moreover, the technical feature of claim 1, mapping from at least one of the first visual representation and the focus visual representation to a first view including the digital content, is not obvious to a person skilled in the art and is not suggested in any of the prior arts. Therefore, the invention of claim 1 is considered to fulfill the requirement of inventive step under PCT Article 33(3).

(Continued on Supplemental Sheet)

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of :

Box No. V

Claims 40, 41, and 42

Claims 40, 41, and 42 of the present invention relate a method for presenting a graphical user interface on a computer system display, a computer system for presenting streamlined interaction with digital content, and a customized user interface for a computer system, respectively, which adopt the same subject matter as the invention of claim 1. Therefore, the inventions of claims 40, 41, and 42 are also considered to fulfill the requirements of novelty and inventive step under PCT Article 33(2),(3).

Claims 68, 69, and 70

Claims 68, 69, and 70 of the present invention relate a method for presenting a customized user interface for a computer interface, a system for presenting a customized user interface for a system, and a computer implemented method for interpreting on-line executable operations into streamlined operations, respectively, which adopt the same subject matter as the invention of claim 1. Therefore, the inventions of claims 68, 69, and 70 are also considered to fulfill the requirements of novelty and inventive step under PCT Article 33(2),(3).

Claims 88 and 89

Claims 88 and 89 of the present invention relate a streamlined computer device and a method for pre-configuring a streamlined computer device, respectively, which adopt the same subject matter as the invention of claim 1. Therefore, the inventions of claims 88 and 89 are also considered to fulfill the requirements of novelty and inventive step under PCT Article 33(2),(3).

Claims 2-39, 43-67, 71-87, 90-98, and 100-123

Claims 2-39, 43-67, 71-87, 90-98, and 100-123, which are dependent directly or indirectly on claims 1, 42, 70, 89, and 41, respectively, are also considered to fulfill the requirements of novelty and inventive step under PCT Article 33(2), (3).

2. Industrial Applicability

The present invention is industrially applicable under PCT Article 33(4).

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

In claim 99, what the description of "as described above" points is so unclear that the technical feature of claim 99 is not clarified.

PATENT COOPERATION TREATY

DOCKETED Appe Foreign
DUE: 1/25 - Search Opt 6.3.09 9.3.09 6.10.09

From the INTERNATIONAL SEARCHING AUTHORITY

To:
LOWRIE, LANDO & ANASTASI, LLP
Attn. Gates, Sarah M.
One Main Street, Eleventh Floor
Cambridge, Massachusetts 02142
ETATS-UNIS D'AMERIQUE

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference A2029-7001WO	Date of mailing *(day/month/year)* 03/06/2009
International application No. PCT/US2009/038599	**FOR FURTHER ACTION** See paragraphs 1 and 4 below
Applicant AQUENT, LLC	International filing date *(day/month/year)* 27/03/2009

1. [x] The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

   Filing of amendments and statement under Article 19:
   The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

   When? The time limit for filing such amendments is normally two months from the date of transmittal of the International Search Report.

   Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 338.82.70

   For more detailed instructions, see the notes on the accompanying sheet.

2. [ ] The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. [ ] **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

   [ ] the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

   [ ] no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

   Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90*bis*.1 and 90*bis*.3, respectively, before the completion of the technical preparations for international publication.

   The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

   Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

   In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

   See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2, NL–2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Marja Brouwers

Form PCT/ISA/220 (October 2005) *(See notes on accompanying sheet)*

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims,description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped),whether

(i) the claim is unchanged;

(ii) the claim is cancelled;

(iii) the claim is new;

(iv) the claim replaces one or more claims as filed;

(v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."

2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."

3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

4. [Where various kinds of amendments are made]:
"Claims 1–10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1*bis*(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43*bis*.1(c)).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the *PCT Applicant's Guide*, Volume II.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
A2029-7001WO		
International application No.	International filing date *(day/month/year)*	(Earliest) Priority Date *(day/month/year)*
PCT/US2009/038599	27/03/2009	01/04/2008
Applicant		
AQUENT, LLC		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

[X] It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**
   a. With regard to the **language**, the international search was carried out on the basis of:
      [X] the international application in the language in which it was filed
      [ ] a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))
   b. [ ] This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).
   c. [ ] With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. [ ] **Certain claims were found unsearchable** (See Box No. II)

3. [ ] **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,
   [X] the text is approved as submitted by the applicant
   [ ] the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,
   [X] the text is approved as submitted by the applicant
   [ ] the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,
   a. the figure of the **drawings** to be published with the abstract is Figure No. 4
      [X] as suggested by the applicant
      [ ] as selected by this Authority, because the applicant failed to suggest a figure
      [ ] as selected by this Authority, because this figure better characterizes the invention
   b. [ ] none of the figures is to be published with the abstract

A. CLASSIFICATION OF SUBJECT MATTER
INV. G06F1/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
G06F H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 199 52 486 A1 (SCHWEIZER JOACHIM [DE]; RUETTIGER MAXIMILIAN [DE]; JAENICKE VOLKMAR [D) 3 May 2001 (2001-05-03) column 1, line 56 - column 2, line 60; figures 1,2	1-26
X	US 2007/182663 A1 (BIECH GRANT S [CA]) 9 August 2007 (2007-08-09) paragraphs [0019] - [0071]; figures 1,2	1-26
A	EP 0 588 210 A (HITACHI LTD [JP]) 23 March 1994 (1994-03-23) column 3, line 49 - column 12, line 12; figures 1-5	1,16,18, 21,23

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
27 May 2009	03/06/2009

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Arranz, José

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 19952486 A1	03-05-2001	NONE	
US 2007182663 A1	09-08-2007	NONE	
EP 0588210 A	23-03-1994	DE 69331299 D1	24-01-2002
		DE 69331299 T2	14-08-2002
		JP 3268467 B2	25-03-2002
		JP 6090200 A	29-03-1994
		US 5436954 A	25-07-1995

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

see form PCT/ISA/220

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Applicant's or agent's file reference see form PCT/ISA/220	Date of mailing *(day/month/year)* see form PCT/ISA/210 (second sheet) **FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2009/038599	27.03.2009	01.04.2008

International Patent Classification (IPC) or both national classification and IPC
INV. G06F1/16

Applicant
AQUENT, LLC

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

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

2. **FURTHER ACTION**

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

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

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

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:	Date of completion of this opinion	Authorized Officer
European Patent Office P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Fax: +31 70 340 - 3016	see form PCT/ISA/210	Arranz, José Telephone No. +31 70 340-4870

Box No. I Basis of the opinion

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

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

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

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

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

   a. type of material:

      ☐ a sequence listing

      ☐ table(s) related to the sequence listing

   b. format of material:

      ☐ on paper

      ☐ in electronic form

   c. time of filing/furnishing:

      ☐ contained in the international application as filed.

      ☐ filed together with the international application in electronic form.

      ☐ furnished subsequently to this Authority for the purposes of search.

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

5. Additional comments:

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

1. Statement

Novelty (N)	Yes:	Claims	6,7,14-24
	No:	Claims	1-5,8-13,25,26
Inventive step (IS)	Yes:	Claims	
	No:	Claims	1-26
Industrial applicability (IA)	Yes:	Claims	1-26
	No:	Claims	

2. Citations and explanations

see separate sheet

Re Item V.

1 Reference is made to the following documents:

D1: DE 199 52 486 A1 (SCHWEIZER JOACHIM [DE]; RUETTIGER MAXIMILIAN [DE]; JAENICKE VOLKMAR [D) 3 May 2001 (2001-05-03)

D2: US 2007/182663 A1 (BIECH GRANT S [CA]) 9 August 2007 (2007-08-09)

D3: EP-A-0 588 210 (HITACHI LTD [JP]) 23 March 1994 (1994-03-23)

2 INDEPENDENT CLAIMS 1,25

2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.
Document D1 discloses (the references in parentheses applying to this document):

a portable computer configurable between plurality of display modes including a laptop mode and an easel mode (Col.1, line 56 - Col.2, line 24), the portable computer comprising:
a display component including a display screen configured to display content (Fig.1);
a base (Fig.1); and
a hinge assembly configured to rotatably couple the display component to the base (Col.1, line 56 - Col.2, line 24);
wherein the hinge assembly is configured to permit rotation of the display component about a single axis to configure the portable computer between the laptop mode and the easel mode (Col.1, line 56 - Col.2, line 24).

Consequently, D1 discloses all the features of claim 1.

2.2 A corresponding objection as raised in §2.1 applies, mutatis mutandis, to claim 25.

3 DEPENDENT CLAIMS 2-24, 26
Dependent claims 2-24, 26 do not contain any features which, in combination with

the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, see documents D1-D3 and the corresponding passages cited in the search report.

Possible steps after receipt of the international search report (ISR) and written opinion of the International Searching Authority (WO-ISA)

General information	For all international applications filed on or after 01/01/2004 the competent ISA will establish an ISR. It is accompanied by the WO-ISA. Unlike the former written opinion of the IPEA (Rule 66.2 PCT), the WO-ISA is not meant to be responded to, but to be taken into consideration for further procedural steps. This document explains about the possibilities.
Amending claims under Art. 19 PCT	Within 2 months after the date of mailing of the ISR and the WO-ISA the applicant may file amended claims under Art. 19 PCT directly with the International Bureau of WIPO. The PCT reform of 2004 did not change this procedure. For further information please see Rule 46 PCT as well as form PCT/ISA/220 and the corresponding Notes to form PCT/ISA/220.
Filing a demand for international preliminary examination	In principle, the WO-ISA will be considered as the written opinion of the IPEA. This should, in many cases, make it unnecessary to file a demand for international preliminary examination. If the applicant nevertheless wishes to file a demand this must be done before expiry of 3 months after the date of mailing of the ISR/WO-ISA or 22 months after priority date, whichever expires later (Rule 54bis PCT). Amendments under Art. 34 PCT can be filed with the IPEA as before, normally at the same time as filing the demand (Rule 66.1 (b) PCT). If a demand for international preliminary examination is filed and no comments/amendments have been received the WO-ISA will be transformed by the IPEA into an IPRP (International Preliminary Report on Patentability) which would merely reflect the content of the WO-ISA. The demand can still be withdrawn (Art. 37 PCT).
Filing informal comments	After receipt of the ISR/WO-ISA the applicant may file informal comments on the WO-ISA directly with the International Bureau of WIPO. These will be communicated to the designated Offices together with the IPRP (International Preliminary Report on Patentability) at 30 months from the priority date. Please also refer to the next box.
End of the international phase	At the end of the international phase the International Bureau of WIPO will transform the WO-ISA or, if a demand was filed, the written opinion of the IPEA into the IPRP, which will then be transmitted together with possible informal comments to the designated Offices. The IPRP replaces the former IPER (international preliminary examination report).
Relevant PCT Rules and more information	Rule 43 PCT, Rule 43bis PCT, Rule 44 PCT, Rule 44bis PCT, PCT Newsletter 12/2003, OJ 11/2003, OJ 12/2003

Electronic Acknowledgement Receipt

EFS ID:	28095123
Application Number:	14680422
International Application Number:	
Confirmation Number:	5691
Title of Invention:	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
First Named Inventor/Applicant Name:	Yves Behar
Customer Number:	23628
Filer:	Marcus E. Browne/Lynn McNamara
Filer Authorized By:	Marcus E. Browne
Attorney Docket Number:	L2039.70004US03
Receipt Date:	18-JAN-2017
Filing Date:	07-APR-2015
Time Stamp:	14:42:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	L203970004US03-TRN-MEB.pdf	73540 eb5e09d419f73708675f0a403d16a694b5fa36a9	no	1

Warnings:

Information:					
2		L203970004US03-IDS-MEB.pdf	110163 e131907df04672d60c475fe792e9411bb27c4107	yes	6
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Transmittal Letter		1	4	
	Information Disclosure Statement (IDS) Form (SB08)		5	6	
Warnings:					
Information:					
3	Foreign Reference	GB2321982A.pdf	2126667 716e5368e7fcc1509c715ade06f7d1bc56d834ee	no	12
Warnings:					
Information:					
4	Foreign Reference	WO9524007A1.pdf	5161067 682b6e8bac03fe2d1d9e2d49f36e0773c227dfb9	no	31
Warnings:					
Information:					
5	Other Reference-Patent/App/Search documents	L203970004WO00_IPRP_mailed_10-14-2010.pdf	1189961 ee8a0fdcc4bd12dde42f949b409e616bc646ff4a	no	8
Warnings:					
Information:					
6	Other Reference-Patent/App/Search documents	L203970001WO00_ISRWO_mailed_06-03-2009.pdf	845912 bc7a4f7df73cce3f1f8bcf5c8728bc7509f4324b	no	12
Warnings:					
Information:					
7	Other Reference-Patent/App/Search documents	L203970001EP00_ER_dated_11-22-2016.pdf	275378 1a03a118ef3072b41500d8683afa39c741779435	no	8
Warnings:					
Information:					

8	Other Reference-Patent/App/Search documents	L203970004EP00_EESR_mailed_04-05-2011.pdf	229033 5120e937826ce621e4be96bfc191699dcb4a9cbb	no	7
Warnings:					
Information:					
9	Other Reference-Patent/App/Search documents	L203970001CN00_OA_mailed_07-18-2013.pdf	342135 499df04b82958032dfe9dcc0f58407d6be61315b	no	7
Warnings:					
Information:					
10	Other Reference-Patent/App/Search documents	L203970001EP00_Comm_dated_11-23-2015.pdf	155280 b4a3876aeda38fa602d6c313e827d76734a5fb60	no	5
Warnings:					
Information:					
11	Other Reference-Patent/App/Search documents	L203970001JP00_OA_mailed_04-16-2013.pdf	103858 0d2afc897bad93cc8ae190d75c2956ac7ffd2730	no	3
Warnings:					
Information:					
12	Other Reference-Patent/App/Search documents	L203970001JP00_OA_mailed_12-04-2012_w_Eng_translation.pdf	381955 6badcee108b65e435e75faa49df5eb5d72c3e04c	no	9
Warnings:					
Information:					
13	Other Reference-Patent/App/Search documents	L203970001US02_OA_dated_06-07-2012.pdf	614167 1dbd6bf5c456d09f2c748460f7175b527812faa5	no	19
Warnings:					
Information:					
14	Other Reference-Patent/App/Search documents	L203970001US02_OA_dated_04-04-2011.pdf	337086 707b2d2e84d46a8bb16c0270adff007cf7514389	no	11
Warnings:					
Information:					
		Total Files Size (in bytes):	11946202		

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.

Doc Code: TRAN.LET
Document Description: Transmittal Letter

USED IN LIEU OF PTO/SB/21 (07-09)

TRANSMITTAL FORM *(to be used for all correspondence after initial filing)*			
		Application Number	14/680,422-Conf. #5691
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		First Named Inventor	Yves Behar
		Art Unit	2141
		Examiner Name	Amy Ng
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ENCLOSURES (*Check all that apply*)

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

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	WOLF, GREENFIELD & SACKS, P.C.		
Signature	/Marcus E. Browne/		
Printed name	Marcus E. Browne		
Date	January 18, 2017	Reg. No.	71,897

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Dated: 01-18-2017 Signature: /Lynn P. McNamara/ (Lynn P. McNamara)

DOCKET NO.: L2039.70004US03

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:	Amy Ng
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 18th day of January, 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 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:

Serial No.	Filing Date	Inventor(s)	Docket No.
*15/280,928	09-28-2016	Pennington et al.	L2039.70014US02

*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 reports or other communications from corresponding or related International or Foreign National Applications:

Serial No.	Date of Mailing	Type(s) of Communication	Docket No.
EP 9727165.4	**11-22-2016**	**European Examination Report**	**L2039.70001EP00**
PCT/US2009/038599	**06-03-2009**	**International Search Report and Written Opinion**	**L2039.70001WO00**
EP 09755433.1	**04-05-2011**	**Extended European Search Report**	**L2039.70004EP00**
PCT/US2009/39117	**10-14-2010**	**International Preliminary Report on Patentability**	**L2039.70004WO00**

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

- **Chinese Office Action mailed July 18, 2013 in connection with Chinese Application No. 200980117859.8.**
- **European Communication dated November 23, 2015 in connection to European Application No. 09727165.4.**

- **Japanese Office Action mailed April 16, 2013 in connection with Japanese Application No. 2011-503058.**
- **Japanese Office Action mailed December 4, 2012 in connection with Japanese Application No. 2011-503058 and partial English translation thereof.**
- **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.**

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

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FORM PTO-1449/A and B (modified PTO/SB/08)				APPLICATION NO.: 14/680,422	ATTY. DOCKET NO.: L2039.70004US03
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FILING DATE: April 07, 2015	CONFIRMATION NO.: 5691
				FIRST NAMED INVENTOR: Yves Behar	
Sheet	1	of	1	GROUP ART UNIT: 2141	EXAMINER: Claudia B. Dragoescu

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.]

EXAMINER:	DATE CONSIDERED:

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

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(71) Applicant: **Nokia Corporation**
02150 Espoo (FI)

(72) Inventors:
- **Perälä, Timo**
  36270 Kangasala (FI)
- **Schrader, Martin**
  33710 Tampere (FI)

(74) Representative: **Pursiainen, Timo Pekka**
Tampereen Patenttitoimisto Oy,
Hermiankatu 12B
33720 Tampere (FI)

(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.

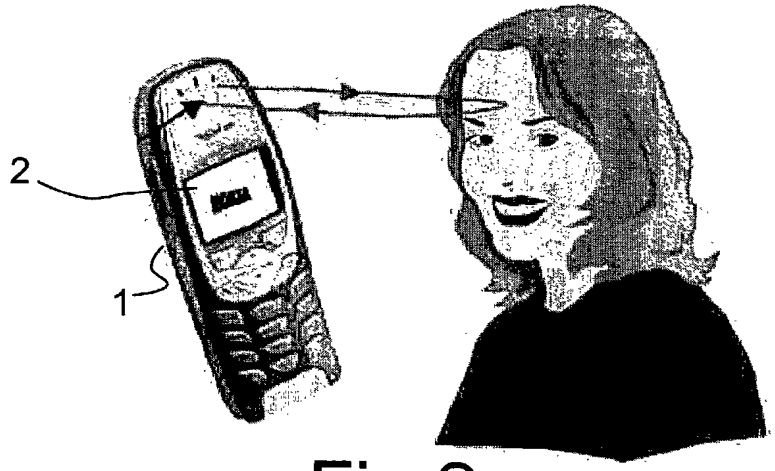


Fig 2a

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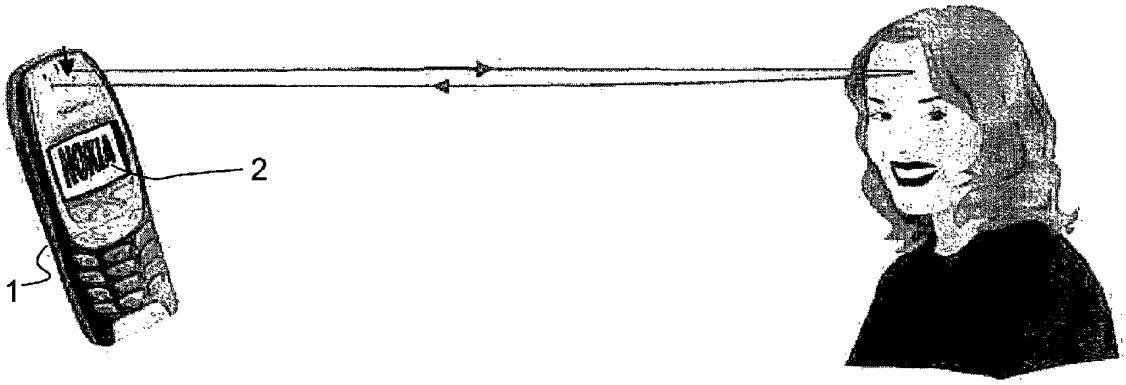


Fig 2b

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 mesage 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 father 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 palmtop 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 rescaling 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.

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).

13. The electronic device (1) according to any of the claims 7 to 12, **characterized in that** it is a wireless station.

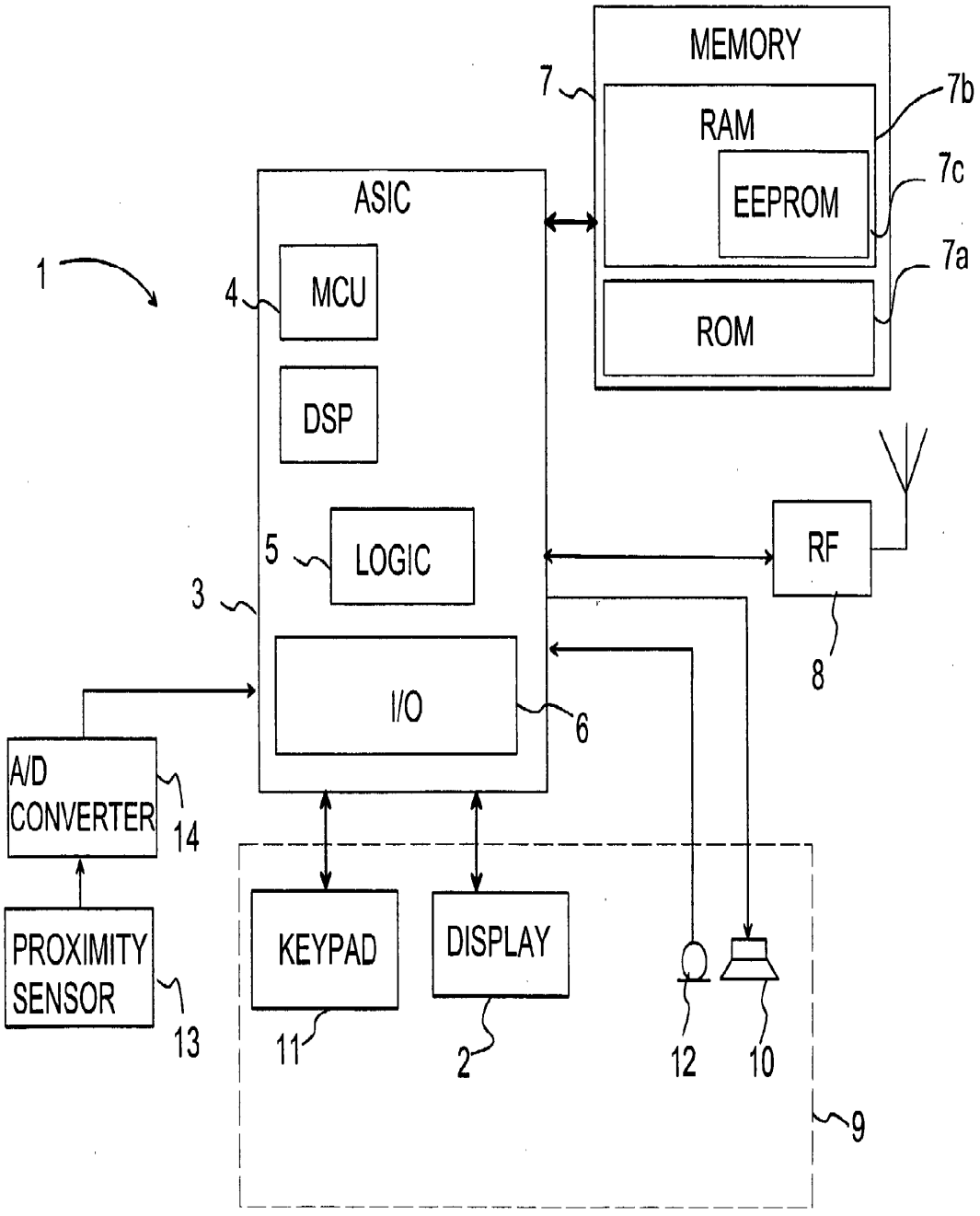

MEMORY
7
7b
RAM
7c
EEPROM
7a
ROM
ASIC
1
4
MCU
DSP
5
LOGIC
3
RF
8
I/O
6
A/D
CONVERTER
14
PROXIMITY
SENSOR
13
KEYPAD
DISPLAY
11
2
12
10
9

Fig 1

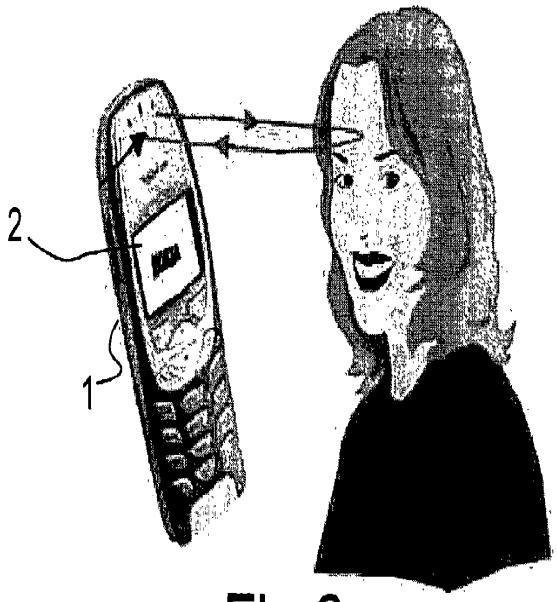


Fig 2a

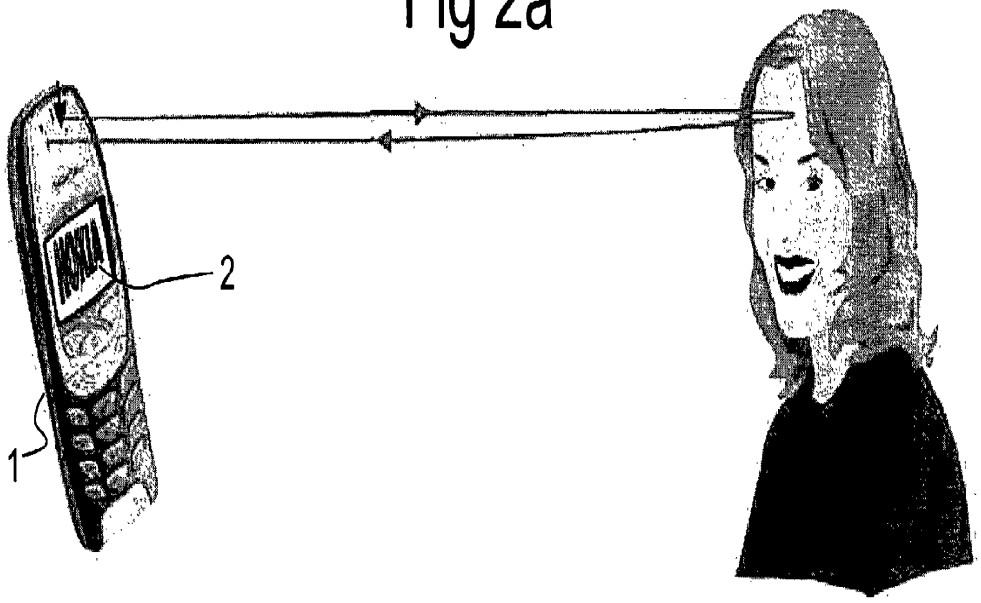


Fig 2b

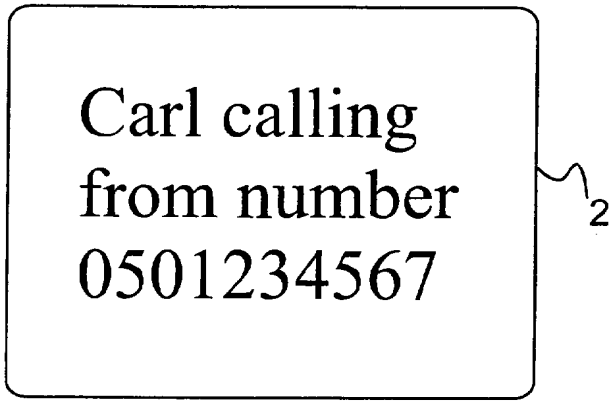


Fig 3a

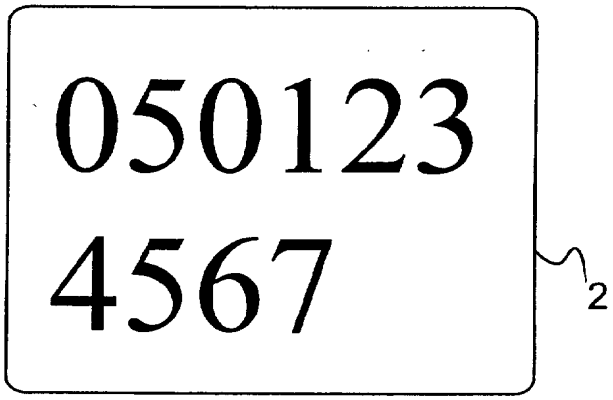


Fig 3b

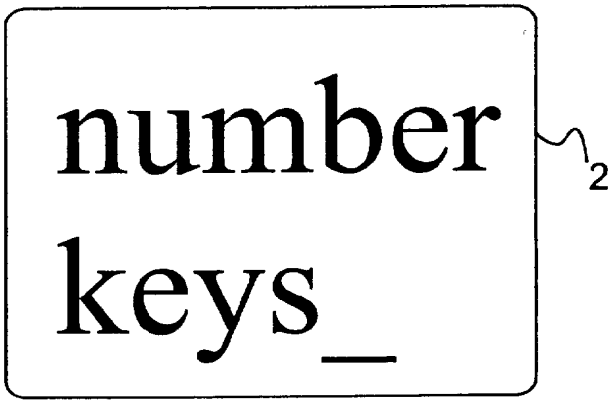

number
keys_
2

Fig 4a

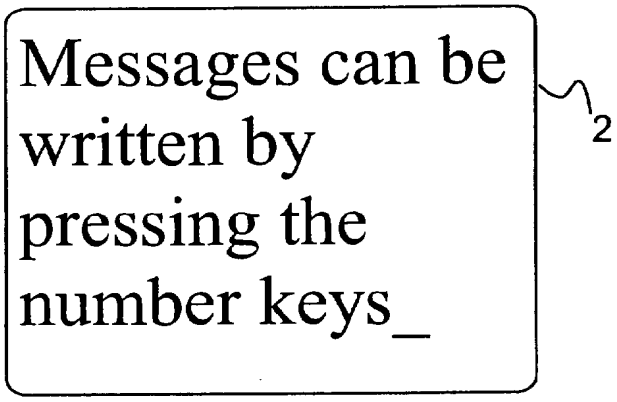

Messages can be
written by
pressing the
number keys_
2

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	

TECHNICAL FIELDS SEARCHED (Int.Cl.7)
G06F
H04M

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	4 April 2003	Schröter, P

CATEGORY OF CITED DOCUMENTS

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

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

EPO FORM 1503 03.02 (P04C01)

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

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0127727 A	19-04-2001	AU 7679000 A	23-04-2001
		EP 1224519 A2	24-07-2002
		WO 0127727 A2	19-04-2001
EP 0405826 A	02-01-1991	DE 69017286 D1	06-04-1995
		DE 69017286 T2	29-06-1995
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WO 02093331 A	21-11-2002	FI 20011039 A	17-11-2002
		WO 02093331 A1	21-11-2002
		US 2002175896 A1	28-11-2002
WO 0127735 A	19-04-2001	FI 992191 A	13-04-2001
		FI 20001506 A	13-04-2001
		AU 7792600 A	23-04-2001
		CN 1379871 T	13-11-2002
		EP 1228422 A1	07-08-2002
		WO 0127735 A1	19-04-2001
		NO 20021647 A	22-05-2002

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

Electronic Acknowledgement Receipt

EFS ID:	28631918
Application Number:	14680422
International Application Number:	
Confirmation Number:	5691
Title of Invention:	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
First Named Inventor/Applicant Name:	Yves Behar
Customer Number:	23628
Filer:	Marcus E. Browne/Lynn McNamara
Filer Authorized By:	Marcus E. Browne
Attorney Docket Number:	L2039.70004US03
Receipt Date:	15-MAR-2017
Filing Date:	07-APR-2015
Time Stamp:	10:56:57
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	L203970004US03-TRN-MEB.pdf	74131 9a7adda6f178f1757a3d737af958b0f2a4fed0e6	no	1

Warnings:

Information:					
2		L203970004US03-IDS-MEB.pdf	91487 60c9e9d1d172902bf5948ec2719a69f915167f55	yes	4
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Transmittal Letter		1	3	
	Information Disclosure Statement (IDS) Form (SB08)		4	4	
Warnings:					
Information:					
3	Foreign Reference	EP1316877A1.pdf	657324 11657a3279a5e8c23ca2d6a1e8a33a4e0685c579	no	13
Warnings:					
Information:					
4	Other Reference-Patent/App/Search documents	L203970004EP00_ER_dated_01-17-2017.pdf	287260 faf1a12be4f9df0bc4b8e5702740bf64cc3a11ea	no	8
Warnings:					
Information:					
		Total Files Size (in bytes):	1110202		

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.

Doc Code: TRAN.LET
Document Description: Transmittal Letter

USED IN LIEU OF PTO/SB/21 (07-09)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)			
		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*)

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

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

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: 03-15-2017 Signature: /Lynn P. McNamara/ (Lynn P. McNamara)

DOCKET NO.: L2039.70004US03

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 15th day of March, 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 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:

Serial No.	Filing Date	Inventor(s)	Docket No.
†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:

Serial No.	Date of Mailing	Type(s) of Communication	Docket No.
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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

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

23628 7590 04/19/2017
WOLF GREENFIELD & SACKS, P.C.
600 ATLANTIC AVENUE
BOSTON, MA 02210-2206

EXAMINER	
DRAGOESCU, CLAUDIA B	

ART UNIT	PAPER NUMBER
2141	

NOTIFICATION DATE	DELIVERY MODE
04/19/2017	ELECTRONIC

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

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

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

Patents_eOfficeAction@WolfGreenfield.com
WGS_eOfficeAction@WolfGreenfield.com

Office Action Summary	Application No. 14/680,422	Applicant(s) BEHAR ET AL.	
	Examiner CLAUDIA DRAGOESCU	Art Unit 2141	AIA (First Inventor to File) Status No

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

Period for Reply

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

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

Status

1)☒ Responsive to communication(s) filed on *4/7/15*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

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

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

Disposition of Claims*

5)☒ Claim(s) *1 and 6-22* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1 and 6-22* is/are rejected.

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

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

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

Application Papers

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

11)☒ The drawing(s) filed on *4/7/15* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

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

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date *11/10/15,1/18/17,3/15/17*.

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

4) ☐ Other: _____.

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-I.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:

Present Application	U.S. Patent 9,003,315
1. A customized user interface to display computer content on a display component of a computer system, 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 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 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.	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
21. A customized user interface to display computer content on a display component of a computer system, 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 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; 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.	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.
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.	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.
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.	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.
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.	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.
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.	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.

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.	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.
11. The user interface of claim 1, further comprising a storage component configured to retain a previous view state.	11. The user interface of claim 1, further comprising a storage component configured to retain a previous view state.
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.	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.
13. The user interface of claim 11, further comprising the navigation element displayed in a header display.	13. The user interface of claim 11, further comprising the navigation element displayed in the header display.
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.	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.
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.	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.
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.	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.
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	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

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 ct. *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 negatived 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.***

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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Art Unit	2143
Examiner Name	J. N. To
Attorney Docket Number	L2039-700421

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	1	http://laptop.org/en/laptop/start/ebook.shtml accessed on September 29, 2008	☐
	2	International Search Report from a commonly owned PCT application PCT/US09/39117	☐
	3	Miller, M., "Creating a Digital Home Entertainment System with Windows Media Center" , Apr 2006, Que.	☐
	4	Supplemental European Search Report from corresponding European Application No. 09755433 dated March 25, 2011.	☐

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

*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.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (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.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

FORM PTO-1449/A and B (modified PTO/SB/08)				APPLICATION NO.: 14/680,422	ATTY. DOCKET NO.: L2039.70004US03
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FILING DATE: April 07, 2015	CONFIRMATION NO.: 5691
				FIRST NAMED INVENTOR: Yves Behar	
Sheet	1	of	1	GROUP ART UNIT: 2141	EXAMINER: Claudia B. Dragoescu

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

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

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CONFIRMATION NO. 5691

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
14/680,422	04/07/2015	715	2141	L2039.70004US03

APPLICANTS

LiTL LLC, Boston, MA;

INVENTORS

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;

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

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

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

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

04/17/2015

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☐ No Verified and Acknowledged /CLAUDIA B DRAGOESCU/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		CA	56	18	2

ADDRESS

WOLF GREENFIELD & SACKS, P.C.
600 ATLANTIC AVENUE

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14680422	BEHAR ET AL.
	Examiner	Art Unit
	CLAUDIA DRAGOESCU	2141

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

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

CLAIM		DATE								
Final	Original	04/13/2017								
	1	✓								
	2	-								
	3	-								
	4	-								
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	18	✓								
	19	✓								
	20	✓								
	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).BI.	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)).BI.	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$3 near engine).BI.	US-PGPUB; USPAT	OR	ON	2017/04/06 19:39
S269	176	(US-20040001049-$ 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

		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-$ or US-20060017692-$ or US-20080174570-$ or US-20070075127-$ or US-20050020325-$ or US-20090109213-$ or US-20040012627-$ or US-20120233565-$ or US-20100081475-$ or US-20080204424-$ or US-20080119237-$ or US-20060085384-$ or US-20050085273-$ or US-20050125570-$ or US-20080020744-$ or US-20080092054-$ or US-20080059888-$).did. or (US-20050091596-$ or US-20040212602-$ or US-20040207568-$ or US-20090019383-$ or US-20150277688-$ or US-20090322790-$ or US-20090300511-$ or US-20090244012-$ or US-20050206615-$ or US-20150332425-$ or US-20170090699-$).did. or (US-6661426-$ 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-$ 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).BI.	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)).BI.	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))).BI.	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))).BI.	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)).BI.	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

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)

<This search history is empty>

4/13/2017 4:40:30 PM
C:\Users\cdragoescu\Documents\EAST\Workspaces\12416496.wsp

FORM PTO-1449/A and B (modified PTO/SB/08)				APPLICATION NO.: 14/680,422	ATTY. DOCKET NO.: L2039.70004US03
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FILING DATE: April 07, 2015	CONFIRMATION NO.: 5691
				FIRST NAMED INVENTOR: Yves Behar	
Sheet	1	of	2	GROUP ART UNIT: 2141	EXAMINER: Amy Ng

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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		7,148,877		Chang et al.	12-12-2006
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		7,187,364		Duarte et al.	03-06-2007
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		9,495,070		Pennington et al.	11-15-2016
		2005-0093868	A1	Hinckley	05-05-2005
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		2007-0296820	A1	Lonn	12-27-2007
		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
		2009-0303205	A1	Seibert	12-10-2009

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:	DATE CONSIDERED:
/CLAUDIA B DRAGOESCU/	04/13/2017

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

FORM PTO-1449/A and B (modified PTO/SB/08) **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**				APPLICATION NO.: 14/680,422	ATTY. DOCKET NO.: L2039.70004US03
				FILING DATE: April 07, 2015	CONFIRMATION NO.: 5691
				FIRST NAMED INVENTOR: Yves Behar	
Sheet	2	of	2	GROUP ART UNIT: 2141	EXAMINER: Amy Ng

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

EXAMINER:	DATE CONSIDERED:
/CLAUDIA B DRAGOESCU/	04/13/2017

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

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

CPC- SEARCHED		
Symbol	Date	Examiner
G06F 3/0481-04847 17/2247-3089	4/7/17	CD

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

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

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

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/

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
Registration No.: 71,897
Matthew H. Grady
Registration No.: 52,957
WOLF, GREENFIELD & SACKS, P.C.
600 Atlantic Avenue
Boston, Massachusetts 02210-2206
617.646.8000

PTO/AIA/26 (04-14)
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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) L2039.70004US03

In re Application of: Yves Behar et al.

Application No.: 14/680,422-Conf. #5691

Filed: April 7, 2015

For: SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT

The applicant, LiTL LLC, owner of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of **prior patent** No. 9,003,315 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The applicant hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

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

expires for failure to pay a maintenance fee;
is held unenforceable;
is found invalid by a court of competent jurisdiction;
is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
has all claims canceled by a reexamination certificate;
is reissued; or
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I hereby acknowledge that any willful false statements made are punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

2. ☒ The undersigned is an attorney or agent of record. Reg. No. 71,897

/Marcus E. Browne/ — Signature
August 18, 2017 — Date

Marcus E. Browne — Typed or printed name

Agent for Applicant — Title
617.646.8000 — Telephone Number

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

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Electronic Patent Application Fee Transmittal

Application Number:	14680422
Filing Date:	07-Apr-2015
Title of Invention:	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
First Named Inventor/Applicant Name:	Yves Behar
Filer:	Marcus E. Browne/Eileen MacKenzie
Attorney Docket Number:	L2039.70004US03

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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

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

Electronic Acknowledgement Receipt

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

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	25156 a4727a71225364f008acaa43fac4935374517752	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	L203970004US03-FEE-MEB.pdf	31388 ccac8a293347ebc0fcd275f3c77df1e2cae472c7	no	1
Warnings:					
Information:					
3	Extension of Time	L203970004US03-EXT-MEB.pdf	23603 c04b4446556b8dcb312dc64e1a235ea5584832ef	no	1
Warnings:					
Information:					
4		L203970004US03-AMN-MEB.pdf	59698 57e1d3cfbdf106b0a9f25df39221f69558b930da	yes	11

Multipart Description/PDF files in .zip description

Document Description	Start	End
Amendment/Req. Reconsideration-After Non-Final Reject	1	1
Claims	2	6
Applicant Arguments/Remarks Made in an Amendment	7	11

Warnings:					
Information:					
5	Terminal Disclaimer Filed	L203970004US03-TD-MEB.pdf	20731 0fa6c7cf43c566c2b6e7d08d4863a0fdbaa2ad0d	no	1

Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	32756 6954d8411154004a42fe97ac7bb2a1b1e46f389a	no	2
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

New International Application Filed with the USPTO as a Receiving Office

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Doc Code: TRAN.LET
Document Description: Transmittal Letter

USED IN LIEU OF PTO/SB/21 (07-09)

TRANSMITTAL FORM *(to be used for all correspondence after initial filing)*			
		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

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[ ] Fee Attached	[ ] Licensing-related Papers	[ ] Appeal Communication to Board of Appeals and Interferences
[X] Amendment/Reply	[ ] Petition	[ ] Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
[ ] After Final	[ ] Petition to Convert to a Provisional Application	[ ] Proprietary Information
[ ] Affidavits/declaration(s)	[ ] Power of Attorney, Revocation Change of Correspondence Address	[ ] Status Letter
[X] Extension of Time Request	[X] Terminal Disclaimer	[ ] Other Enclosure(s) (please Identify below):
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[ ] Reply to Missing Parts/ Incomplete Application	Remarks	
[ ] Reply to Missing Parts under 37 CFR 1.52 or 1.53		

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

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FEE TRANSMITTAL

Complete if known	
Application Number	14/680,422-Conf. #5691
Filing Date	April 7, 2015
First Named Inventor	Yves Behar
Examiner Name	J. N. To
Art Unit	2143
Practitioner Docket No.	L2039.70004US03

☐ Applicant asserts small entity status. See 37 CFR 1.27.

☐ 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.

TOTAL AMOUNT OF PAYMENT ($)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)

	FILING FEES			SEARCH FEES			EXAMINATION FEES			
Application Type	**U ($)**	**S ($)**	**M ($)**	**U ($)**	**S ($)**	**M ($)**	**U ($)**	**S ($)**	**M ($)**	**Fees Paid ($)**
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 ($)**	**Fee Paid ($)**
_____ - 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.

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

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)

	Fees Paid ($)
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): 1251 Extension for response within first month	200.00
1814 Statutory disclaimer, including terminal ...	160.00

SUBMITTED BY

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/

PTO/AIA/22 (03-13)
Approved for use through 7/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)	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

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.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

	Fee	Small Entity Fee	Micro Entity Fee	
[X] One month (37 CFR 1.17(a)(1))	$200	$100	$50	$ 200.00
[ ] Two months (37 CFR 1.17(a)(2))	$600	$300	$150	$
[ ] Three months (37 CFR 1.17(a)(3))	$1,400	$700	$350	$
[ ] Four months (37 CFR 1.17(a)(4))	$2,200	$1,100	$550	$
[ ] Five months (37 CFR 1.17(a)(5))	$3,000	$1,500	$750	$

[ ] Applicant asserts small entity status. See 37 CFR 1.27.

[ ] 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.

[ ] A check in the amount of the fee is enclosed.

[X] Payment by credit card. ~~Form PTO-2038 is attached.~~

[ ] The Director has already been authorized to charge fees in this application to a Deposit Account.

[X] The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 23/2825 .

[X] Payment made via EFS-Web.

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.

I am the

[ ] applicant.

[X] attorney or agent of record. Registration number 71,897 .

[ ] attorney or agent acting under 37 CFR 1.34. Registration number _____ .

/Marcus E. Browne/ — Signature
August 18,2017 — Date

Marcus E. Browne — Typed or printed name
617.646.8000 — Telephone Number

NOTE: 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*.

[ ] * Total of 1 forms are submitted.

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/

5652890.1

Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination	
	14/680,422	BEHAR ET AL.	

Document Code - DISQ	Internal Document – DO NOT MAIL

TERMINAL DISCLAIMER	☒ APPROVED	☐ DISAPPROVED
Date Filed : 18 August, 2017	**This patent is subject to a Terminal Disclaimer**	

Approved/Disapproved by:

/CRYSTAL QUEEN/

Technology Center: PLRC

Telephone: _____

U.S. Patent and Trademark Office

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/680,422	Filing Date 04/07/2015	☐ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)		
FOR	NUMBER FILED	NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

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

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
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.

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

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

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

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

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

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

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

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

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

5. **Change in Entity Status** (from status indicated above)
- ❑ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ❑ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ❑ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

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

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

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.

Notice of Allowability	Application No. 14/680,422	Applicant(s) BEHAR ET AL.	
	Examiner CLAUDIA DRAGOESCU	Art Unit 2141	AIA (First Inventor to File) Status No

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

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

1. ☒ This communication is responsive to *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 or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

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

   * Certified copies not received: _____.

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

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

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

Attachment(s)

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

/CLAUDIA DRAGOESCU/
Primary Examiner, Art Unit 2141

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

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

CPC- SEARCHED		
Symbol	Date	Examiner
G06F 3/0481-04847 17/2247-3089	4/7/17	CD
G06F 1/1626 3/04886,048$	9/15/17	CD

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
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.

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
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

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
G06F	1/1626 3/04886,048$	9/15/17	CD

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

CPC						
Symbol					**Type**	**Version**
G06F		3	/	0484	F	2013-01-01
G06F		1	/	162	I	2013-01-01
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
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CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
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			/					

NONE		**Total Claims Allowed:**	
(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

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14680422	BEHAR ET AL.
	Examiner	**Art Unit**
	CLAUDIA DRAGOESCU	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		**Total Claims Allowed:**	
(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

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

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

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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12	16														

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 20	
/CLAUDIA DRAGOESCU/ Primary Examiner.Art Unit 2141 (Primary Examiner)	9/15/2018 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 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
S3	0	"2004001049".pn.	US-PGPUB; USPAT	OR	ON	2011/08/18 13:39
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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S12	5316	portal.AB,TI.	US-PGPUB; USPAT	OR	ON	2011/08/18 16:48
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S19	2795	(Yahoo).as.	US-PGPUB; USPAT	OR	ON	2011/08/18 16:55
S23	40063	microsoft.as.	US-PGPUB; USPAT	OR	ON	2011/08/18 16:56
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S60	76	(content and portal).TI.	US-PGPUB; USPAT	OR	ON	2011/08/20 12:06
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S62	18	(Media near10 Center).AB,TI. and Microsoft.as.	US-PGPUB; USPAT	OR	ON	2011/08/20 12:16
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S69	91	(Yves near Behar).IN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/20 13:03
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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$3)).BI.	USPAT			09:44
S88	5595	S87 and (arrow button inndicator)	USPAT	OR	ON	2011/08/26 11:12
S87	8563	(Web near browser) and history	USPAT	OR	ON	2011/08/26 11:12
S90	25	S88 and (back near arrow)	USPAT	OR	ON	2011/08/26 11:13
S89	6400	S87 and (arrow button indicator)	USPAT	OR	ON	2011/08/26 11:13
S91	12	"5926364".pn. "6144358".pn. "6341061".pn. "6437974".pn. "6492974".pn. "6882335".pn. "5436954".pn. "7035665".pn. "7869834".pn. "20060238439".pn. "20030107603".pn. "20050083642".pn.	US-PGPUB; USPAT	OR	ON	2012/07/01 07:49
S92	1	12/416496.app. and (state with view)	US-PGPUB; USPAT	OR	ON	2012/07/01 12:27
S94	398	S93 and "715".clas.	US-PGPUB; USPAT	OR	ON	2012/07/01 15:00
S93	1147	(thumbnail with (Web near page)).BI.	US-PGPUB; USPAT	OR	ON	2012/07/01 15:00
S96	57	(thumbnail with (Web near page)).AB,TI.	US-PGPUB; USPAT	OR	ON	2012/07/01 15:01
S95	310	S94 and (@ad<"20090401")	US-PGPUB; USPAT	OR	ON	2012/07/01 15:01
S97	55	S96 and (@ad<"20090401")	US-PGPUB; USPAT	OR	ON	2012/07/01 15:02
S99	1	S97 and S98	US-PGPUB; USPAT	OR	ON	2012/07/01 15:26
S98	28	(pre$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).BI.	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)).BI.	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)).BI.	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)).BI.	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)).BI.	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$3)).BI.	US-PGPUB; USPAT	OR	ON	2012/07/01 16:55
S113	46	S112 and "715".clas.	US-PGPUB; USPAT	OR	ON	2012/07/01 16:56
S112	93	S111 and (@ad<"20090501")	US-PGPUB; USPAT	OR	ON	2012/07/01 16:56
S114	86	(US-20040001049-$ 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$3 refresh$3) same (thumbnail)).BI.	US-PGPUB; USPAT	OR	ON	2012/07/02 14:40
S117	7	S116 and thumbnail	US-PGPUB; USPAT	OR	ON	2012/07/02 14:57
S116	197	("5200913" | "6005767" | "6659516" | "7072179" | "20020021258" | "20040228076" | "20060264243" | "20080284738" | "5515345" | "5987704" | "6067224" | "6628267" | "6661426" | "6819304" | "7428142" | "7522946" | "D463797" | "D479708" | "D528993" | "6343006" | "20080042987" | "3468576" | "4939514" | "5796575" | "6377444" | "6697055" | "20030109232" | "6222507" | "6302612" | "6642909" | "6859219" | "7138962" | "D495694" | "D504128" | "D513509" | "D517541" | "20050146845" | "20080062625" | "20050210399" | "20090300511" | "6275376" | "6510049" | "6829140" | "20050041378" | "5712760" | "6275376" | "6829140" | "D333636" | "D462069" | "D544846" | "D605635" | "20070138806" | "20070182663" | "6223393" | "6323846" | "6661426" | "6944012" | "D416003" | "20040203535" | "5793355" | "5900848" | "6266236" | "6327482" | "D395868" | "D528541" | "20020010707" | "20050257400" | "6343006" | "6771494" | "7061472" | "7239508" | "20050063145" | "20050128695" | "20050210399" | "20050282596" | "20060268500" | "7061472" | "D491177" | "D516552" | "D534531" | "D593086" | "D593091" | "20060126284" | "20090244012" | "5268817" | "5825352" | "5841631" | "6266236" | "6628267" | "6788527" | "6963485" | "7250207" | "6665175" | "6771494" | "D399526" | "D452238" | "D476326" | "D491936" | "D494162" | "D518042" | "D581371" | "20090322790" | "5949643" | "5987704" | "5790371" | "6005767" | "6659516" | "D391927" | "D392944" | "D535292" | "20070247446" | "20090244832" | "6262885" | "20020005818" | "20030048595" | "20050018396" | "20090275366" | "20100174993" | "5547698" | "6295038" | "6464195" | "D495674" | "D512997" | "D523429" | "D593085" | "20040001049" | "7467356").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/07/02 14:57
S118	70	(thumbnail and (Web near page)).AB,TI. and (generat$ refresh$3 updat$3 cach$3).BI.	US-PGPUB; USPAT	OR	ON	2012/07/02 15:12
S119	64	(thumbnail and (Web near page)).AB,TI. and ((generat$ refresh$3 updat$3 cach$3) same thumbnail).BI.	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).BI.	US-PGPUB; USPAT	OR	ON	2012/11/22 19:24
S124	112	(chang$3 with (device laptop) with configuration with display with content).BI.	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").PN.	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").PN.	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).BI.	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).BI.	US-PGPUB; USPAT	OR	ON	2012/11/26 07:41
S145	150	S142 and (laptop and mode).BI.	US-PGPUB; USPAT	OR	ON	2012/11/26 07:41
S144	347	S142 and (laptop).BI.	US-PGPUB; USPAT	OR	ON	2012/11/26 07:41
S143	0	S142 and (laptop and tent and stand and mode).BI.	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;	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)).BI.				
S191	1	12/416496.app. and ((chang$3 differen$3) same configur$5).BI.	US-PGPUB; USPAT	OR	ON	2013/12/11 09:00
S192	136	(US-20040001049-$ 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

		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-$).did.				
S195	137	(US-20040001049-$ 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-	US-PGPUB; 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.Bl.	US-PGPUB; USPAT	OR	ON	2013/12/11 09:31
S197	1	12/416496.app. and ((chang$3 differen$3 reduc$3) same organiz$8).Bl.	US-PGPUB; USPAT	OR	ON	2013/12/11 09:37
S198	82	(lap$top computer device).ab,ti. and ((chang$3 different) same configuration same automat$7 same display$3 same ((video media) with play$3)).Bl.	US-PGPUB; USPAT	OR	ON	2013/12/11 09:54
S199	27	S198 and (@ad<"20080401")	US-PGPUB; USPAT	OR	ON	2013/12/11 09:56
S200	13	(lap$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$3)).Bl.	US-PGPUB; USPAT	OR	ON	2013/12/11 10:15
S201	40	(lap$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$3) same (full with screen)).Bl.	USPAT			10:18
S202	19	S201 and (@ad<"20080401")	US-PGPUB; USPAT	OR	ON	2013/12/11 10:19
S204	21	S201 not S202	US-PGPUB; USPAT	OR	ON	2013/12/11 10:28
S205	0	(lap$top computer device).ab,ti. and ((switch$3 display$3) same portrait same landscape same configuration same automat$7 same (full with screen)).Bl.	US-PGPUB; USPAT	OR	ON	2013/12/11 10:34
S206	0	(lap$top computer device).ab,ti. and ((switch$3 chang$3 display$3) same portrait same landscape same automat$7 same (full with screen)).Bl.	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).Bl.	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)).Bl.	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).Bl.	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).Bl.	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	flextronics.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".clas. and (automat$7 same display same mode).Bl.	US-PGPUB; USPAT	OR	ON	2013/12/11 15:21
S233	385	"715".clas. 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).BI.	US-PGPUB; USPAT	OR	ON	2013/12/12 11:10
S242	330	(zoom$3 and automat$7 and easel).BI.	US-PGPUB; USPAT	OR	ON	2013/12/12 11:10
S241	0	(zoom$3 same automat$7 same easel).BI.	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

		"6323846" | "6661426" | "6944012" | "D416003" | "20040203535" | "5793355" | "5900848" | "6266236" | "6327482" | "D395868" | "D528541" | "20020010707" | "20050221865" | "6144358" | "6437974" | "20050210399" | "7366994" | "20090019479" | "20050257400" | "6343006" | "6771494" | "7061472" | "7239508" | "20050063145" | "20050128695" | "20050210399" | "20050282596" | "20060268500" | "7061472" | "D491177" | "D516552" | "D534531" | "D593086" | "D593091" | "20060126284" | "20060264243" | "5436954" | "20090150826" | "20070242421" | "20040212602" | "20050005241" | "20050071782" | "20090244012" | "5268817" | "5825352" | "5841631" | "6266236" | "6628267" | "6788527" | "6963485" | "7250207" | "6665175" | "6771494" | "D399526" | "D452238" | "D476326" | "D491936" | "D494162" | "D518042" | "D581371" | "7756928" | "20040207568" | "20090193364" | "20090322790" | "5949643" | "5987704" | "5790371" | "6005767" | "6659516" | "D391927" | "D392944" | "D535292" | "20070247446" | "20050083642" | "5926364" | "20070240076" | "6693652" | "20080235594" | "5847698" | "20080059888" | "7814425" | "20090244832" | "6262885" | "20020005818" | "20030048595" | "20050018396" | "20090275366" | "20100174993" | "5547698" | "6295038" | "6464195" | "D495674" | "D512997" | "D523429" | "D593085" | "20040001049" | "7467356" | "20040001049" | "20030107603" | "7035665" | "20080024388" | "6972752" | "20060277167" | "20080134093").PN.				
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 toggl$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).BI.	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).BI.	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)).BI.	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$3 near engine).BI.	US-PGPUB; USPAT	OR	ON	2017/04/06 19:39
S269	176	(US-20040001049-$ 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

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-$ or US-20060017692-$ or US-20080174570-$ or US-20070075127-$ or US-20050020325-$ or US-20090109213-$ or US-20040012627-$ or US-20120233565-$ or US-20100081475-$ or US-20080204424-$ or US-20080119237-$ or US-20060085384-$ or US-20050085273-$ or US-20050125570-$ or US-20080020744-$ or US-20080092054-$ or US-20080059888-$).did. or (US-20050091596-$ or US-20040212602-$ or US-20040207568-$ or US-20090019383-$ or US-20150277688-$ or US-20090322790-$ or US-20090300511-$ or US-20090244012-$ or US-20050206615-$ or US-20150332425-$ or US-20170090699-$).did. or (US-6661426-$ 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-$ 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).BI.	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)).BI.	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))).BI.	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))).BI.	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)).BI.	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

		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-$ or US-20060017692-$ or US-20080174570-$ or US-20070075127-$ or US-20050020325-$ or US-20090109213-$ or US-20040012627-$ or US-20120233565-$ or US-20100081475-$ or US-20080204424-$ or US-20080119237-$ or US-20060085384-$ or US-20050085273-$ or US-20050125570-$ or US-20080020744-$ or US-20080092054-$ or US-20080059888-$).did. or (US-20050091596-$ or US-20040212602-$ or US-20040207568-$ or US-20090019383-$ or US-20150277688-$ or US-20090322790-$ or US-20090300511-$ or US-20090244012-$ or US-20050206615-$ or US-					

		20150332425-$ or US-20170090699-$ or US-20130141854-$ or US-20140282263-$ or US-20110161821-$).did. or (US-6661426-$ 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-$ 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-$ or US-9003315-$).did. or (JP-2006227409-$ or JP-2004302179-$ or JP-06242853-$ or JP-06259166-$ or JP-2005242436-$).did. or (US-20090322790-$ or US-20040228076-$ or US-20050210399-$).did.				
S290	10	S289 and ((easel near10 mode) same key$1board$3 same (back near10 (panel side face))).BI.	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))).BI.	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))).BI.	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))).BI.	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)).BI.	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)).BI.	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))).BI.	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 toggl$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)).BI.	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 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).BI.	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 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)).BI.	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 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).BI.	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 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.				
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 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	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

			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

Doc Code: TRAN.LET
Document Description: Transmittal Letter

USED IN LIEU OF PTO/SB/21 (07-09)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)			
		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*)

☐ Fee Transmittal Form	☐ Drawing(s)	☐ After Allowance Communication to TC
☐ Fee Attached	☐ Licensing-related Papers	☐ Appeal Communication to Board of Appeals and Interferences
☐ Amendment/Reply	☐ Petition	☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
☐ After Final	☐ Petition to Convert to a Provisional Application	☐ Proprietary Information
☐ Affidavits/declaration(s)	☐ Power of Attorney, Revocation Change of Correspondence Address	☐ Status Letter
☐ Extension of Time Request	☐ Terminal Disclaimer	☒ Other Enclosure(s) (please Identify below):
☐ Express Abandonment Request	☐ Request for Refund	• Substitute Statements in Lieu of Declarations (14)
☐ Information Disclosure Statement	☐ CD, Number of CD(s) _____	• Inventor Declarations (5)
☐ Certified Copy of Priority Document(s)	☐ Landscape Table on CD	
☐ Reply to Missing Parts/ Incomplete Application	Remarks	
☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53		

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

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: September 26, 2017 Electronic Signature for: /Eileen M. MacKenzie/

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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I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above.

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.

All statements made herein of my own knowledge are true, and all statements made herein on information and belief are believed to be true.

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.

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 Hibmacronan 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.

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: Matthew David Day Date:

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor six: Robert Sanford Havoc Pennington Date:

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor seven: Noah Bruce Guyot Date:

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor eight: Daniel Kuo Date:

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor nine: Jenea Boshart Hayes Date:

Signature: Citizen of: US

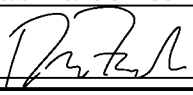
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor ten: Aaron Tang Date:

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor eleven: Donald Francis Fischer Date: 8/5/2016

Signature:  Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor twelve: Christian Marc Schmidt Date:

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor thirteen: Lisa Strausfeld Date:

Signature: Citizen of: US

DECLARATION FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET	ADDITIONAL INVENTOR(S) Supplemental Sheet Page 2of 2

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor fourteen: David Livingston Fore Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor fifteen: John H. Chuang Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor sixteen: Chris Bambacus Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor seventeen: Bart Haney Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor eighteen: Logan Ray Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor nineteen: Serge Beaulieu Date: _____

Signature: _____ Citizen of: US

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);

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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 Hibmacronan 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.

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: Matthew David Day Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor six: Robert Sanford Havoc Pennington Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor seven: Noah Bruce Guyot Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor eight: Daniel Kuo Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor nine: Jenea Boshart Hayes Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor ten: Aaron Tang Date: July 22, 2016

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor eleven: Donald Francis Fischer Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor twelve: Christian Marc Schmidt Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor thirteen: Lisa Strausfeld Date: _____

Signature: _____ Citizen of: US

DECLARATION FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET	ADDITIONAL INVENTOR(S) Supplemental Sheet Page 2of 2

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor fourteen: David Livingston Fore Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor fifteen: John H. Chuang Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor sixteen: Chris Bambacus Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor seventeen: Bart Haney Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor eighteen: Logan Ray Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor nineteen: Serge Beaulieu Date: _____

Signature: _____ Citizen of: US

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Inventor one: Yves Behar Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

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Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor three: Christopher Hibmacronan Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor four: Naoya Edahiro Date: _____

Signature: _____ Citizen of: US

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Signature: _____ Citizen of: US

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Signature: _____ Citizen of: US

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Signature: _____ Citizen of: US

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Signature: _____ Citizen of: US

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Inventor twelve: Christian Marc Schmidt Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor thirteen: Lisa Strausfeld Date: _____

Signature: _____ Citizen of: US

DECLARATION FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET	ADDITIONAL INVENTOR(S) Supplemental Sheet Page 2of 2

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor fourteen: David Livingston Fore Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor fifteen: John H. Chuang Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor sixteen: Chris Bambacus Date: 7/25/16

Signature:  Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor seventeen: Bart Haney Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor eighteen: Logan Ray Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor nineteen: Serge Beaulieu Date: _____

Signature: _____ Citizen of: US

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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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 Hibnacronan Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor four: Naoya Edahiro Date: _____

Signature: _____ Citizen of: US

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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: Matthew David Day Date:

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor six: Robert Sanford Havoc Pennington Date: 2016-08-15

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor seven: Noah Bruce Guyot Date:

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor eight: Daniel Kuo Date:

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor nine: Jenea Boshart Hayes Date:

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor ten: Aaron Tang Date:

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

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Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor thirteen: Lisa Strausfeld Date:

Signature: Citizen of: US

DECLARATION FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET	ADDITIONAL INVENTOR(S) Supplemental Sheet Page 2 of 3

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor fourteen: David Livingston Fore Date:

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor fifteen: John H. Chuang Date:

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor sixteen: Chris Rambacus Date:

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor seventeen: Bart Haney Date:

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor eighteen: Logan Ray Date:

Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor nineteen: Serge Beaulieu Date:

Signature: Citizen of: US

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

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Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

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Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor three: Christopher Hibmacronan Date: _____

Signature: _____ Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor four: Naoya Edahiro Date: _____

Signature: _____ Citizen of: US

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DECLARATION FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET	ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 2

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Inventor five: Matthew David Day Date:

Signature: Citizen of: US

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Signature: Citizen of: US

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any

Inventor nineteen: Serge Beaulieu Date:

Signature: Citizen of: US

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:

[ ] The attached application,

OR

[X] United States application or PCT international application number 14/680,422 filed on 04/07/2015.

LEGAL NAME of inventor to whom this substitute statement applies:

(*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.

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Relationship to the inventor to whom this substitute statement applies:

[ ] Legal Representative (for deceased or legally incapacitated inventor only),

[X] Assignee,

[ ] Person to whom the inventor is under an obligation to assign,

[ ] Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or

[ ] Joint Inventor.

PTO/SB/AIA02 (07-13)
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SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement:

- [ ] Inventor is deceased,
- [ ] Inventor is under legal incapacity,
- [x] 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:

- [x] 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

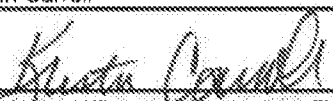
- [ ] An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

WARNING:

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.

Doc code: Oath
Document Description: Oath or declaration filed

PTO/AIA/02 (07-13)
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OR

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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)

Christopher Hibmacronan

Residence (except for a deceased or legally incapacitated inventor):

City	State	Country
Oakland	CA	United States of America

Mailing Address (except for a deceased or legally incapacitated inventor):

2429 Damuth Street

City	State	Zip	Country
Oakland	CA	94602	United States of America

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[X] Assignee,

[ ] Person to whom the inventor is under an obligation to assign,

[ ] Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or

[ ] Joint Inventor.

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Circumstances permitting execution of this substitute statement:

- [ ] Inventor is deceased,
- [ ] Inventor is under legal incapacity,
- [x] 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:

- [x] 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: Kristin Carroll

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

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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:

[ ] The attached application,

OR

[X] United States application or PCT international application number 14/680,422 filed on 04/07/2015.

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):

City	State	Country
San Francisco	CA	United States of America

Mailing Address (except for a deceased or legally incapacitated inventor):

375 Bartlett Street

City	State	Zip	Country
San Francisco	CA	94110	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:

[ ] Legal Representative (for deceased or legally incapacitated inventor only),

[X] Assignee,

[ ] Person to whom the inventor is under an obligation to assign,

[ ] Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or

[ ] Joint Inventor.

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SUBSTITUTE STATEMENT

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OR

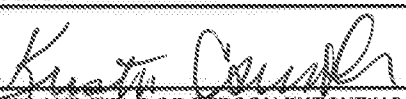
- [ ] An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

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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

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Boston	MA	02116	United States of America
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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:

[ ] The attached application,

OR

[X] United States application or PCT international application number 14/680,422 filed on 04/07/2015.

LEGAL NAME of inventor to whom this substitute statement applies:

(*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.

Relationship to the inventor to whom this substitute statement applies:

[ ] Legal Representative (for deceased or legally incapacitated inventor only),

[X] Assignee,

[ ] Person to whom the inventor is under an obligation to assign,

[ ] Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or

[ ] Joint Inventor.

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SUBSTITUTE STATEMENT

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- [x] 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: Kristin Carroll

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.

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Boston	MA	United States of America
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501 Boylston Street

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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:

[ ] The attached application,

OR

[X] United States application or PCT international application number 14/680,422 filed on 04/07/2015.

LEGAL NAME of inventor to whom this substitute statement applies:

(*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):

City	State	Country
San Francisco	CA	United States of America

Mailing Address (except for a deceased or legally incapacitated inventor):

1916 Page Street; Apartment 1

City	State	Zip	Country
San Francisco	CA	94117	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.

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[X] Assignee,

[ ] Person to whom the inventor is under an obligation to assign,

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[ ] Joint Inventor.

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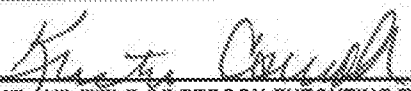
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PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

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

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City	State	Country

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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
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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:

[ ] The attached application,

OR

[X] United States application or PCT international application number 14/680,422 filed on 04/07/2015.

LEGAL NAME of inventor to whom this substitute statement applies:

(*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.

Relationship to the inventor to whom this substitute statement applies:

[ ] Legal Representative (for deceased or legally incapacitated inventor only),

[X] Assignee,

[ ] Person to whom the inventor is under an obligation to assign,

[ ] Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or

[ ] Joint Inventor.

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SUBSTITUTE STATEMENT

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PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

Name: Kristin Carroll	Date (Optional):

Signature: Kristin Carroll

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

This statement is directed to:

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OR

[X] United States application or PCT international application number 14/680,422 filed on 04/07/2015,

LEGAL NAME of inventor to whom this substitute statement applies:

(*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	State	Country
New York	NY	United States of America

Mailing Address (except for a deceased or legally incapacitated inventor):

114 East 13th Street; Apartment 7D

City	State	Zip	Country
New York	NY	10003	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.

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PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

Name: Kristin Carroll	Date (Optional):

Signature: Kristin Carroll

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

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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)

Christian Marc Schmidt

Residence (except for a deceased or legally incapacitated inventor):

Brooklyn	NY	United States of America
City	State	Country

Mailing Address (except for a deceased or legally incapacitated inventor):

119 Smith Street; Apartment 3

Brooklyn	NY	11201	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:

☐ Legal Representative (for deceased or legally incapacitated inventor only),

☒ Assignee,

☐ Person to whom the inventor is under an obligation to assign,

☐ Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or

☐ Joint Inventor.

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SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement:

- [ ] Inventor is deceased,
- [ ] Inventor is under legal incapacity,
- [x] 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:

- [x] 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: Kristin Carroll

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

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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:

[ ] The attached application,

OR

[X] United States application or PCT international application number 14/680,422 filed on 04/07/2015.

LEGAL NAME of inventor to whom this substitute statement applies:

(*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.

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Relationship to the inventor to whom this substitute statement applies:

[ ] Legal Representative (for deceased or legally incapacitated inventor only),

[X] Assignee,

[ ] Person to whom the inventor is under an obligation to assign,

[ ] Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or

[ ] Joint Inventor.

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SUBSTITUTE STATEMENT

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

- [x] 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: Kristin Carroll

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
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501 Boylston Street

Boston	MA	02116	United States of America
City	State	Zip	Country

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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:

[ ] The attached application,

OR

[X] United States application or PCT international application number 14/680,422 filed on 04/07/2015.

LEGAL NAME of inventor to whom this substitute statement applies:

(*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):

City	State	Country
San Francisco	CA	United States of America

Mailing Address (except for a deceased or legally incapacitated inventor):

409B Lyon Street

City	State	Zip	Country
San Francisco	CA	94117	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.

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[X] Assignee,

[ ] Person to whom the inventor is under an obligation to assign,

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[ ] Joint Inventor.

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

- [x] 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

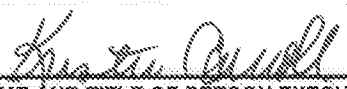
- [ ] An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

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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.

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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
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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:

[ ] The attached application,

OR

[X] United States application or PCT international application number 14/680,422 filed on 04/07/2015.

LEGAL NAME of inventor to whom this substitute statement applies:

(*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.

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Relationship to the inventor to whom this substitute statement applies:

[ ] Legal Representative (for deceased or legally incapacitated inventor only),

[X] Assignee,

[ ] Person to whom the inventor is under an obligation to assign,

[ ] Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or

[ ] Joint inventor.

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SUBSTITUTE STATEMENT

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- [x] 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:

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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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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:

[ ] The attached application,

OR

[x] United States application or PCT international application number 14/680,422 filed on 04/07/2015.

LEGAL NAME of inventor to whom this substitute statement applies:

(*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.

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Relationship to the inventor to whom this substitute statement applies:

[ ] Legal Representative (for deceased or legally incapacitated inventor only),

[x] Assignee,

[ ] Person to whom the inventor is under an obligation to assign,

[ ] Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or

[ ] Joint Inventor.

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SUBSTITUTE STATEMENT

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Name: Kristin Carroll	Date (Optional):

Signature: Kristin Carroll

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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OR

[X] United States application or PCT international application number 14/680,422 filed on 04/07/2015.

LEGAL NAME of inventor to whom this substitute statement applies:

(*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):

City	State	Country
San Francisco	CA	United States of America

Mailing Address (except for a deceased or legally incapacitated inventor):

425 2nd Street #301

City	State	Zip	Country
San Francisco	CA	94107	United States of America

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PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

Name: Kristin Carroll	Date (Optional):

Signature: Kristin Carroll

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

Applicant Name: LITL LLC

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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:

[ ] The attached application,

OR

[X] United States application or PCT international application number 14/680,422 filed on 04/07/2015.

LEGAL NAME of inventor to whom this substitute statement applies:

(*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	State	Country
Oakland	CA	United States of America

Mailing Address (except for a deceased or legally incapacitated inventor):

5741 Scarborough Drive

City	State	Zip	Country
Oakland	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:

[ ] Legal Representative (for deceased or legally incapacitated inventor only),

[X] Assignee,

[ ] Person to whom the inventor is under an obligation to assign,

[ ] Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or

[ ] Joint Inventor.

PTO/SB/AIA02 (07-13)
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SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement:

- [ ] Inventor is deceased,
- [ ] Inventor is under legal incapacity,
- [x] 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:

- [x] 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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Signature: Kristin Carroll

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

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

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Electronic Acknowledgement Receipt

EFS ID:	30481145
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International Application Number:	
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2	Oath or Declaration filed	L203970004US03-INVDEC-MEB.pdf	2774110 e2dbb8fc8e8e6cd362a5d875d52cf6e5001536f3	no	15
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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

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FORM PTO-1449/A and B (modified PTO/SB/08)	APPLICATION NO.: 14/680,422	ATTY. DOCKET NO.: L2039.70004US03
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: April 07, 2015	CONFIRMATION NO.: 5691
	FIRST NAMED INVENTOR: Yves Behar	
Sheet 1 of 1	GROUP ART UNIT: 2141	EXAMINER: Claudia B. Dragoescu

U.S. PATENT DOCUMENTS

Examiner's Initials #	Cite No.	U.S. Patent Document Number	U.S. Patent Document Kind Code	Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		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 Office/ Country	Foreign Patent Document Number	Foreign Patent Document Kind Code	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		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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Methods and apparatuses for operating a portable device based on an accelerometer

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

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

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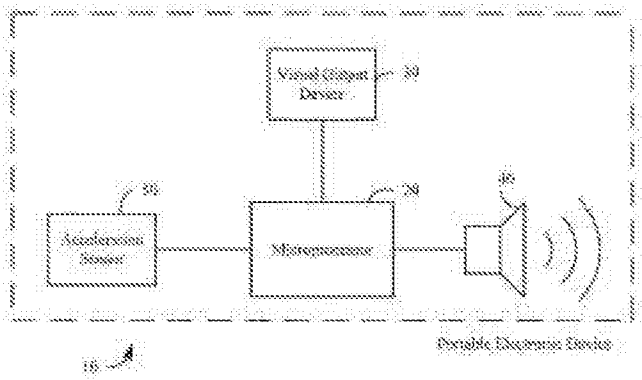
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Abstract of CN1926496 (B)

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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[71] 申请人 苹果电脑有限公司

地址 美国加利福尼亚

[72] 发明人 保罗·J.·维拉恩伯格 阿罗恩·列巴理查德·C.·威廉姆斯 大卫·R.·法尔肯伯格 路易斯·G.·格巴格 雷·L.·常

[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. 根据权力要求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，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，触摸屏设备被用作为便携式设备的示例。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(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所示的结构的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

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率分量以及表示低速运动的相对低频率分量。在方框2202，在显示器平面中提取运动数据中相对高频率分量(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率分量而被移位，以补偿便携式设备的高频率运动(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：

$$Mag(Acceleration_{resultant}) = Sqrt(X_{accel}^{2} + Y_{accel}^{2} + Z_{accel}^{2})$$

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可以被用作为附图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RAM2105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。

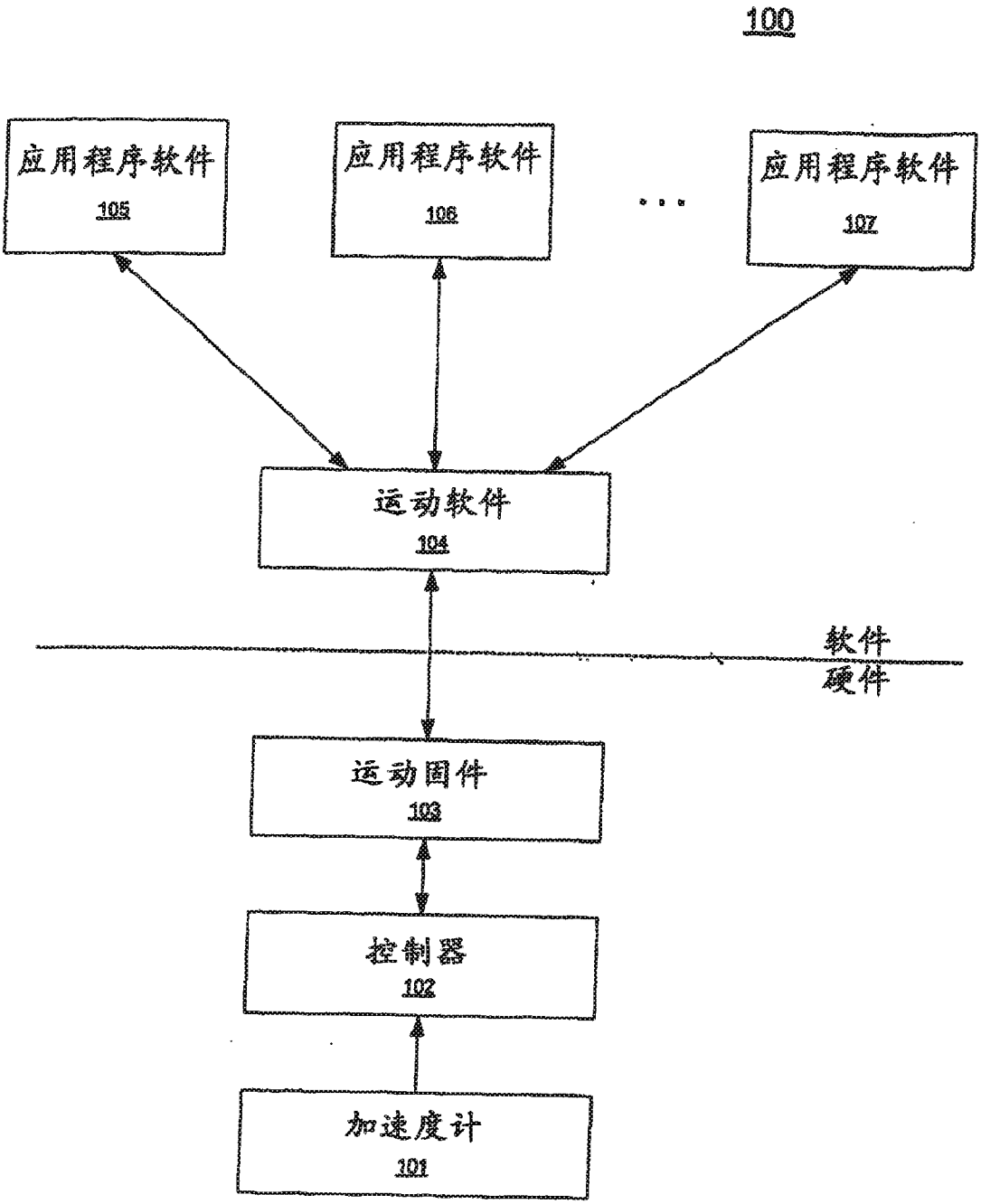

100
应用程序软件
105
应用程序软件
106
...
应用程序软件
107
运动软件
104
软件
硬件
运动固件
103
控制器
102
加速度计
101

图1

200

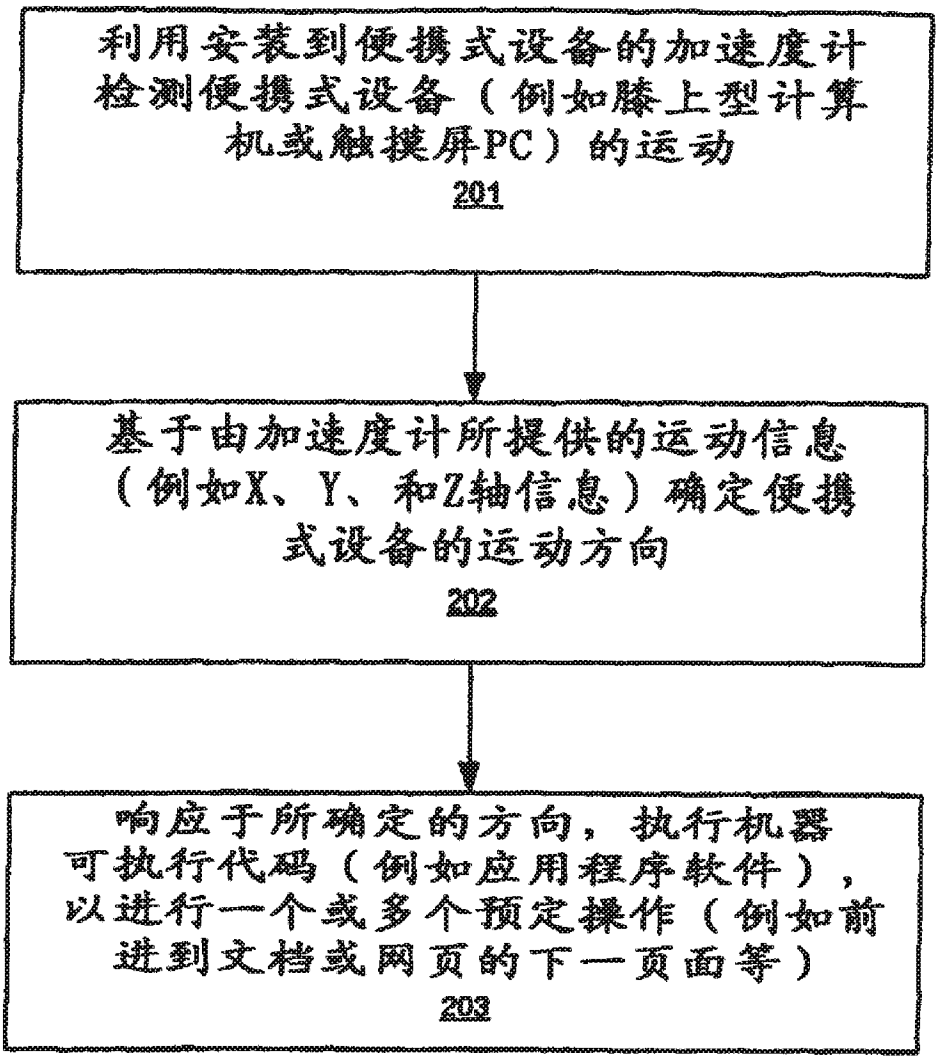

利用安装到便携式设备的加速度计检测便携式设备（例如膝上型计算机或触摸屏PC）的运动
201
基于由加速度计所提供的运动信息（例如X、Y、和Z轴信息）确定便携式设备的运动方向
202
响应于所确定的方向，执行机器可执行代码（例如应用程序软件），以进行一个或多个预定操作（例如前进到文档或网页的下一页面等）
203

图2

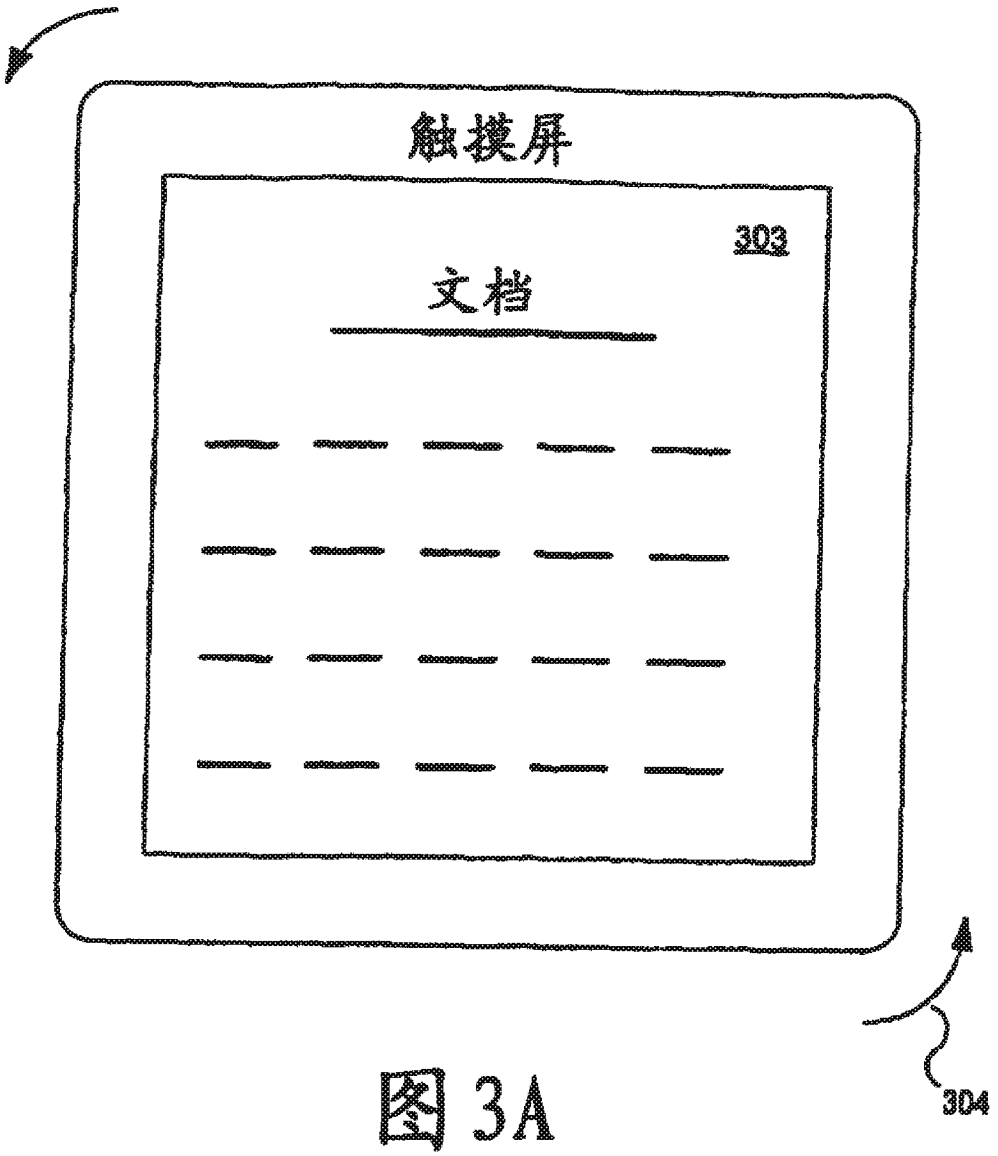


图 3A

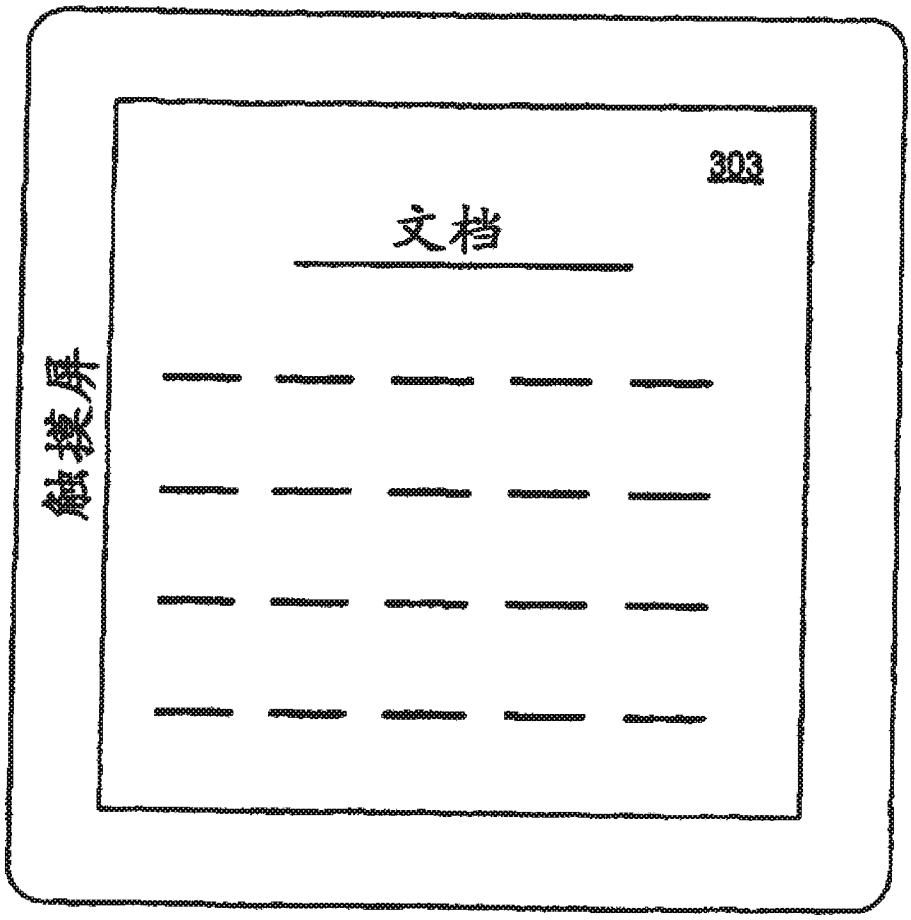


图 3B

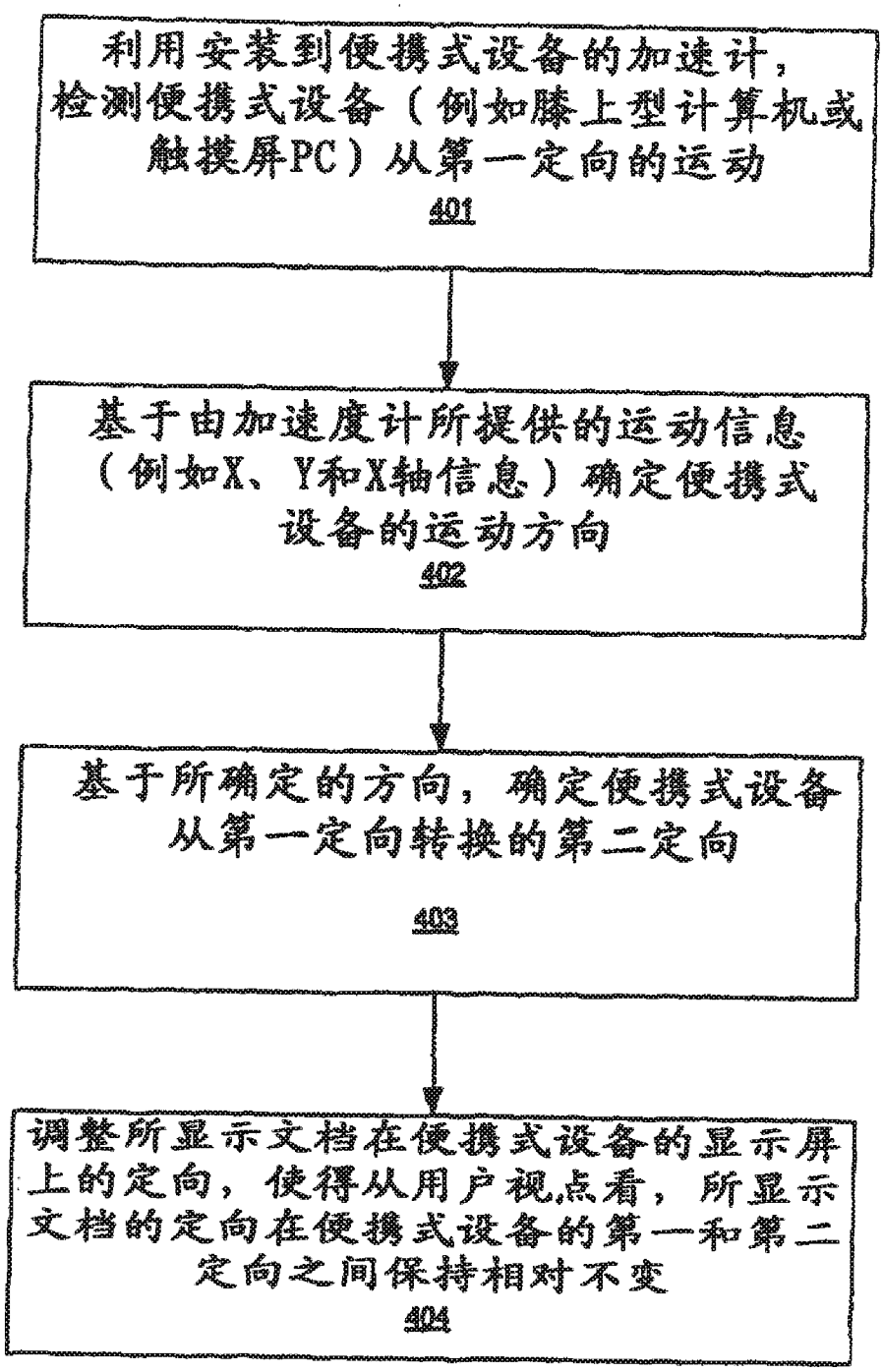

400
利用安装到便携式设备的加速计，检测便携式设备（例如膝上型计算机或触摸屏PC）从第一定向的运动
401
基于由加速度计所提供的运动信息（例如X、Y和X轴信息）确定便携式设备的运动方向
402
基于所确定的方向，确定便携式设备从第一定向转换的第二定向
403
调整所显示文档在便携式设备的显示屏上的定向，使得从用户视点看，所显示文档的定向在便携式设备的第一和第二定向之间保持相对不变
404

图4

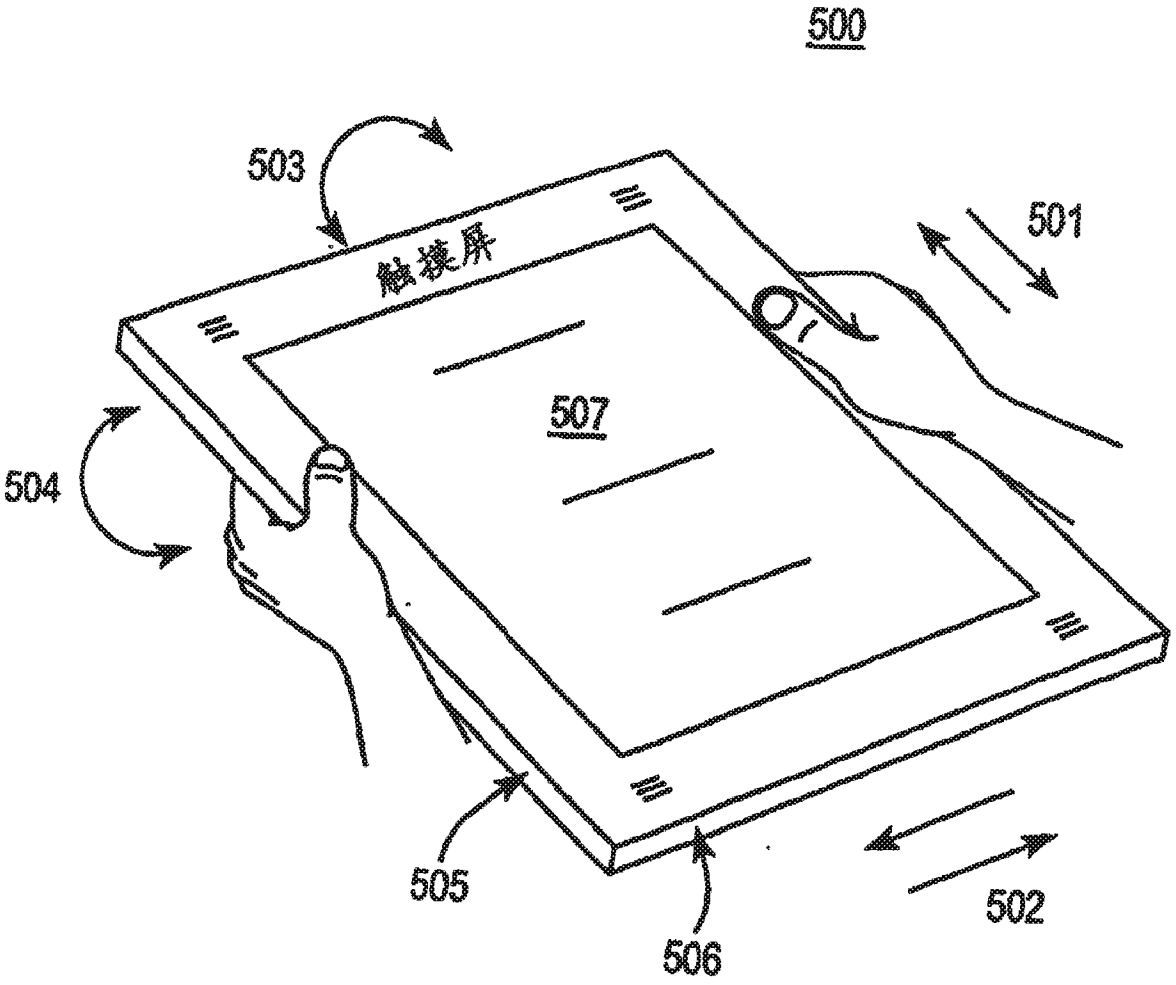


图 5A

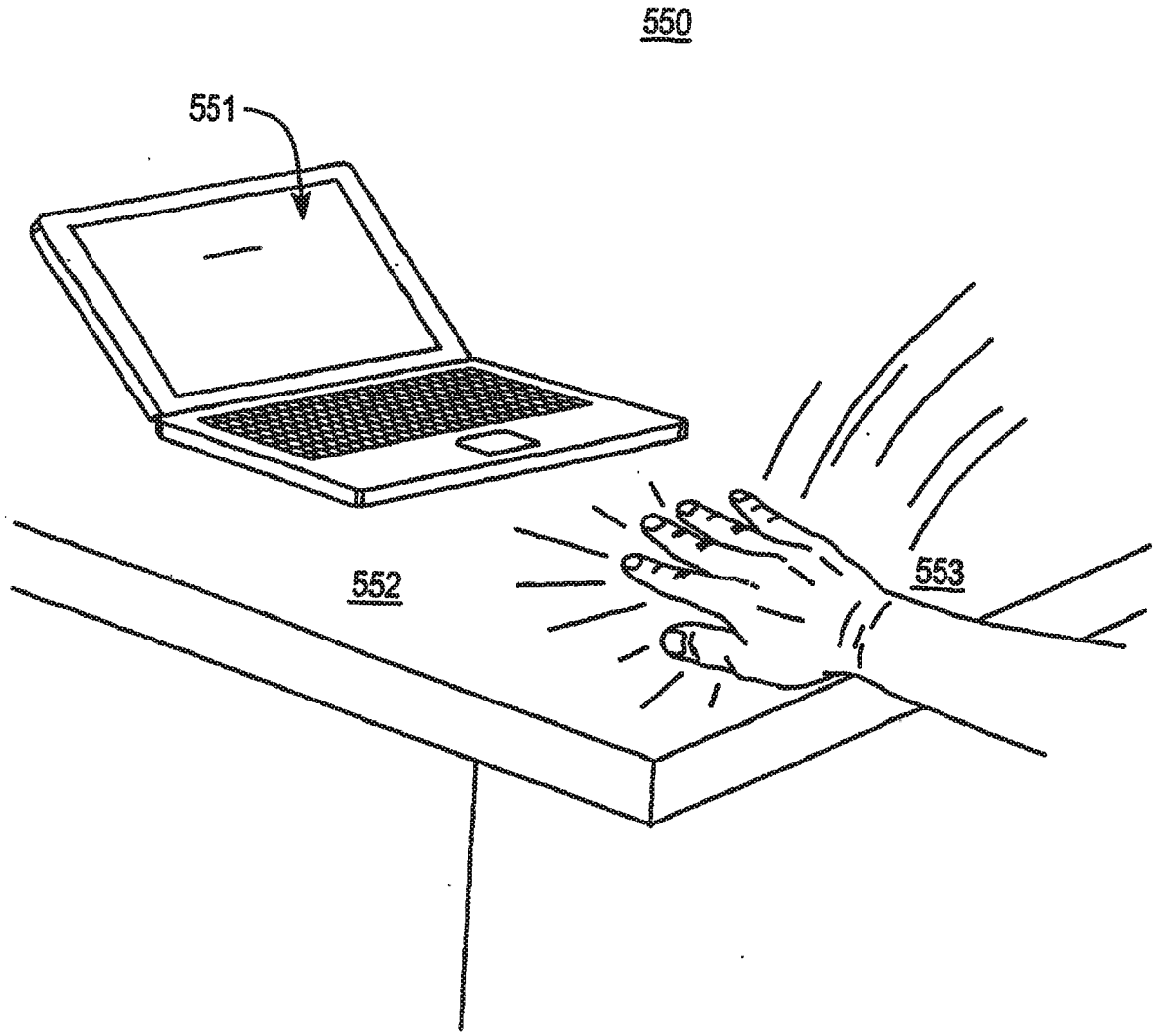


图 5B

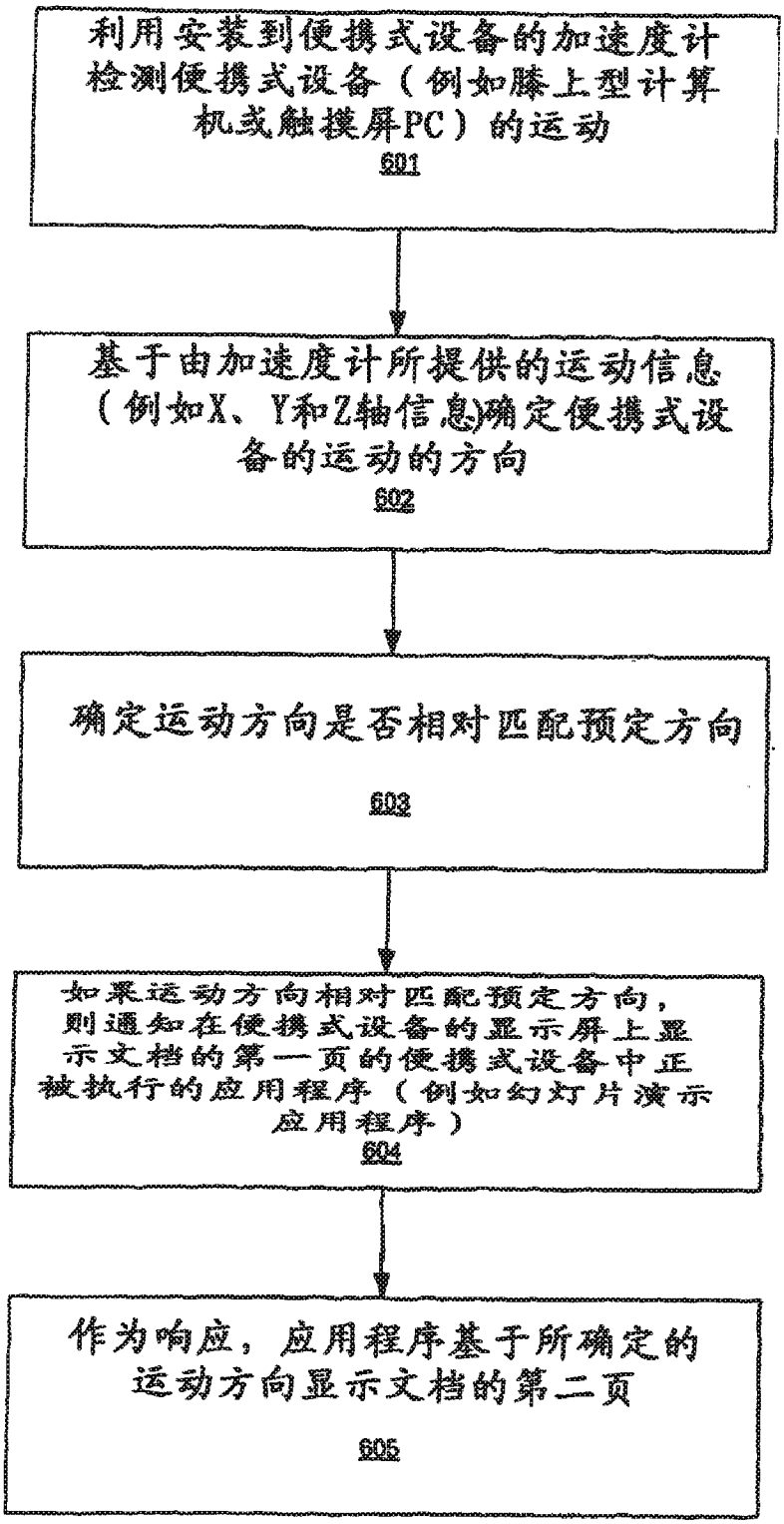

600
利用安装到便携式设备的加速度计检测便携式设备（例如膝上型计算机或触摸屏PC）的运动
601
基于由加速度计所提供的运动信息（例如X、Y和Z轴信息）确定便携式设备的运动的方向
602
确定运动方向是否相对匹配预定方向
603
如果运动方向相对匹配预定方向，则通知在便携式设备的显示屏上显示文档的第一页的便携式设备中正被执行的应用程序（例如幻灯片演示应用程序）
604
作为响应，应用程序基于所确定的运动方向显示文档的第二页
605

图6

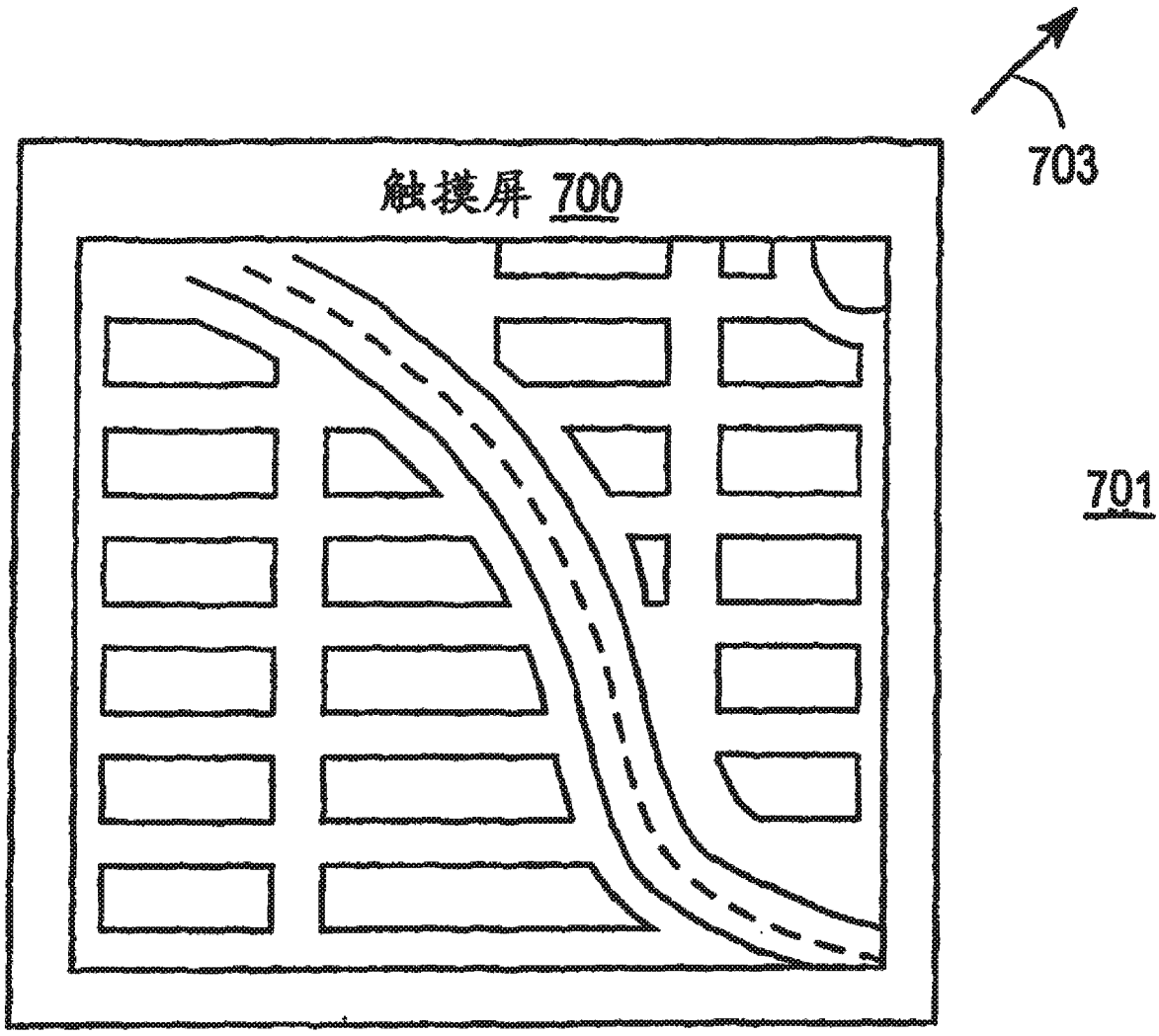


图 7A

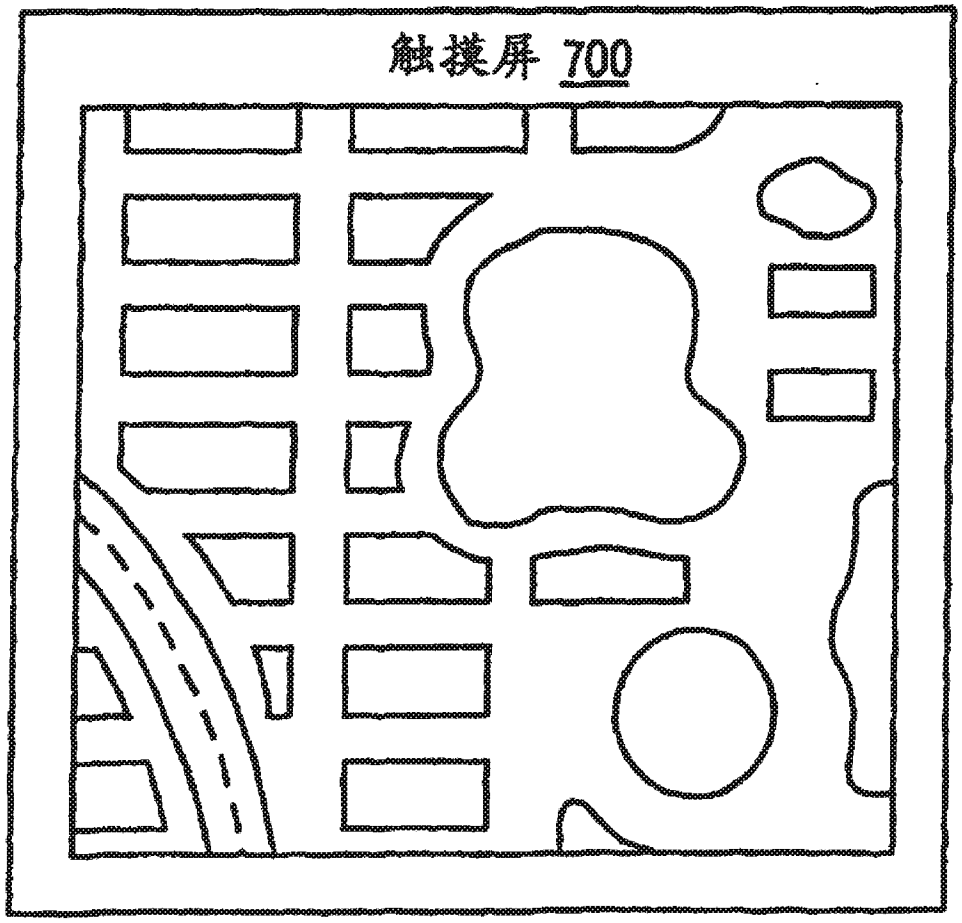


图 7B

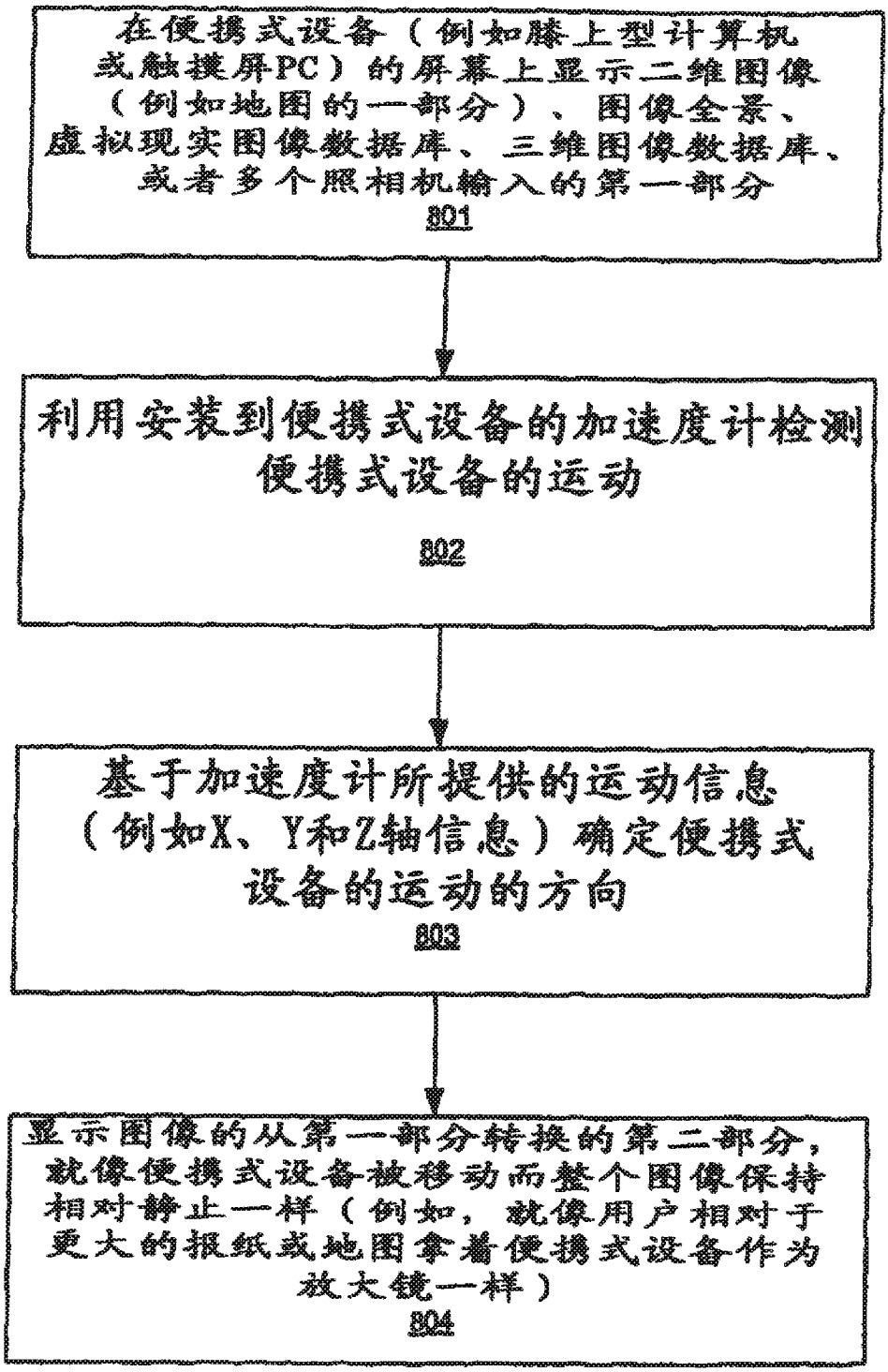

在便携式设备（例如膝上型计算机或触摸屏PC）的屏幕上显示二维图像（例如地图的一部分）、图像全景、虚拟现实图像数据库、三维图像数据库、或者多个照相机输入的第一部分
801
利用安装到便携式设备的加速度计检测便携式设备的运动
802
基于加速度计所提供的运动信息（例如X、Y和Z轴信息）确定便携式设备的运动的方向
803
显示图像的从第一部分转换的第二部分，就像便携式设备被移动而整个图像保持相对静止一样（例如，就像用户相对于更大的报纸或地图拿着便携式设备作为放大镜一样）
804

图8

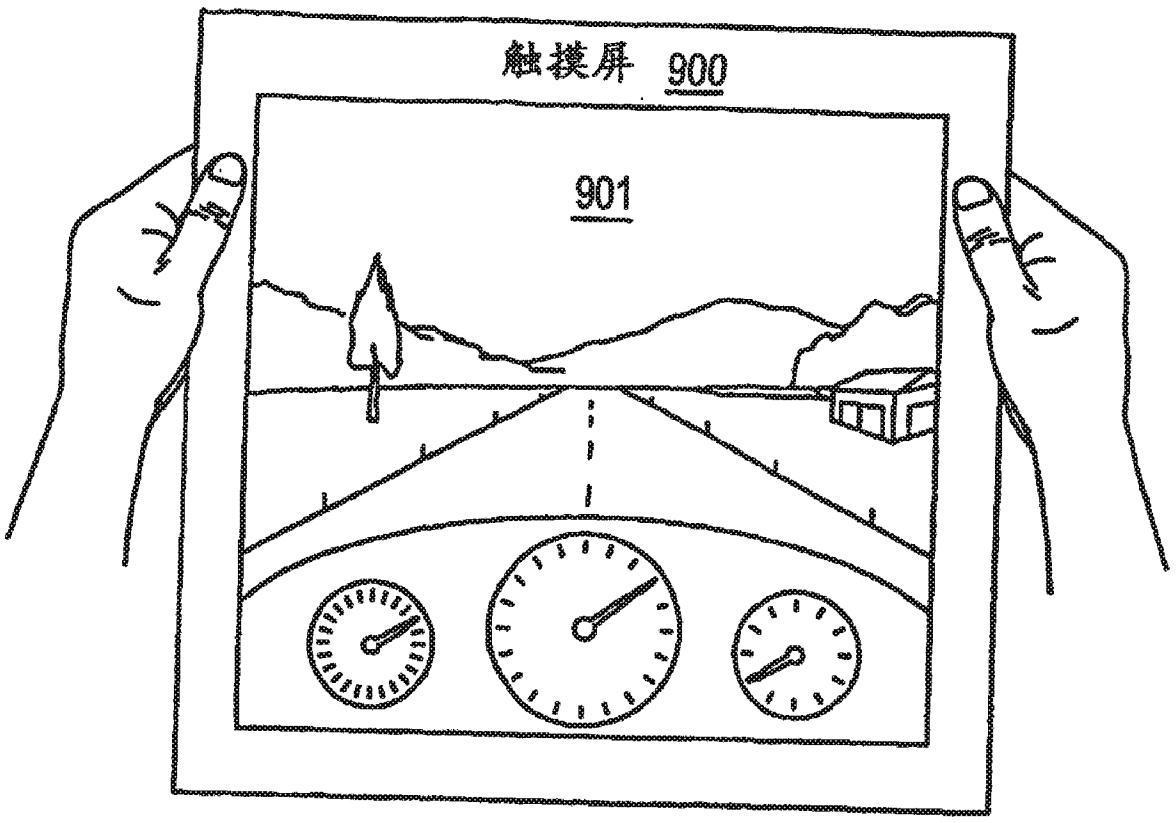


图 9A

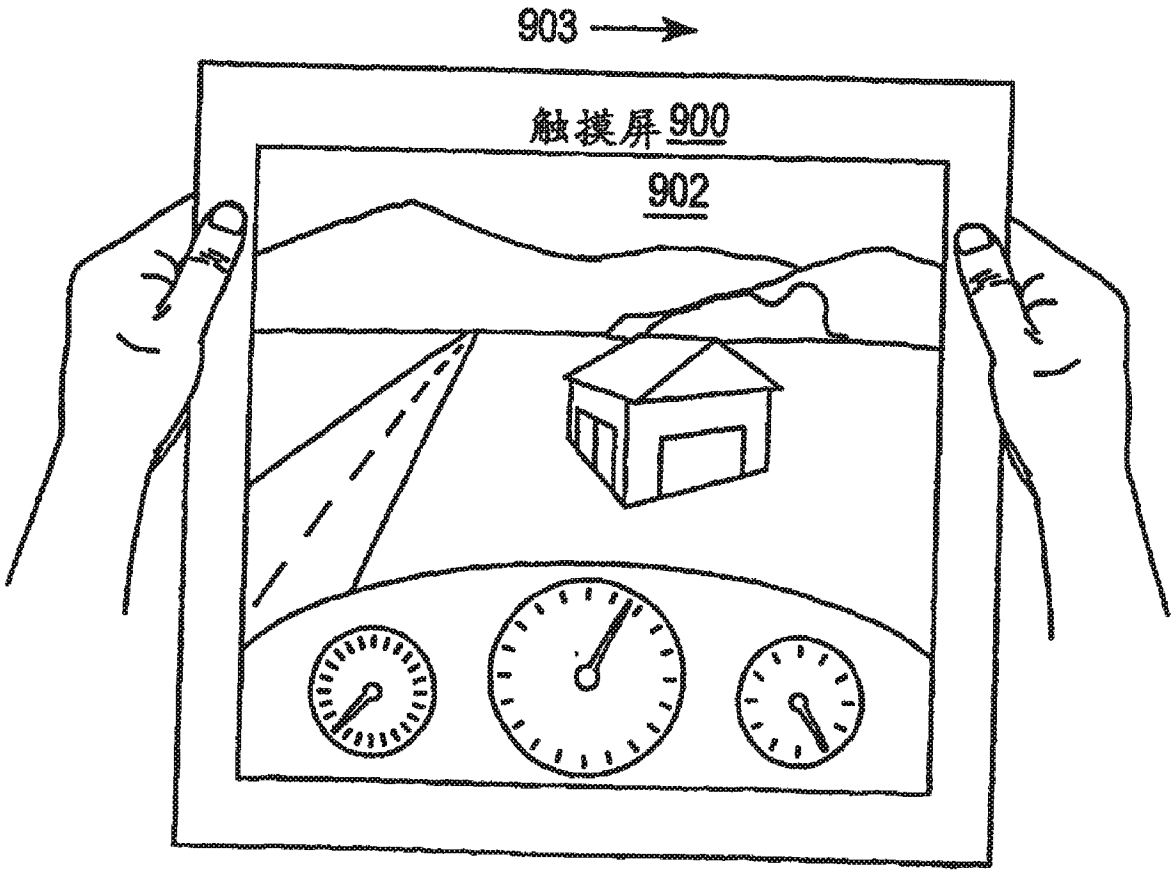


图9B

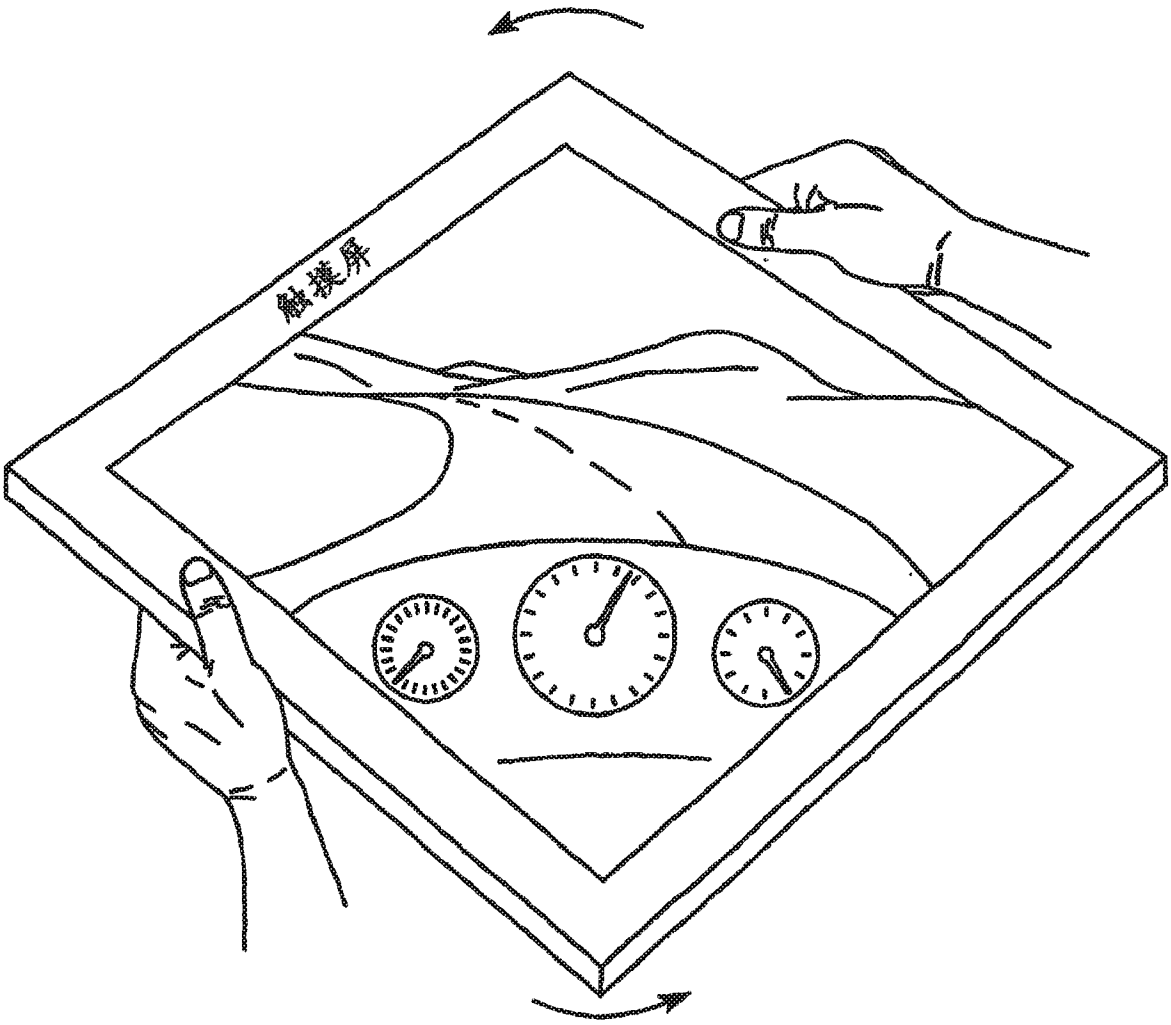


图10A

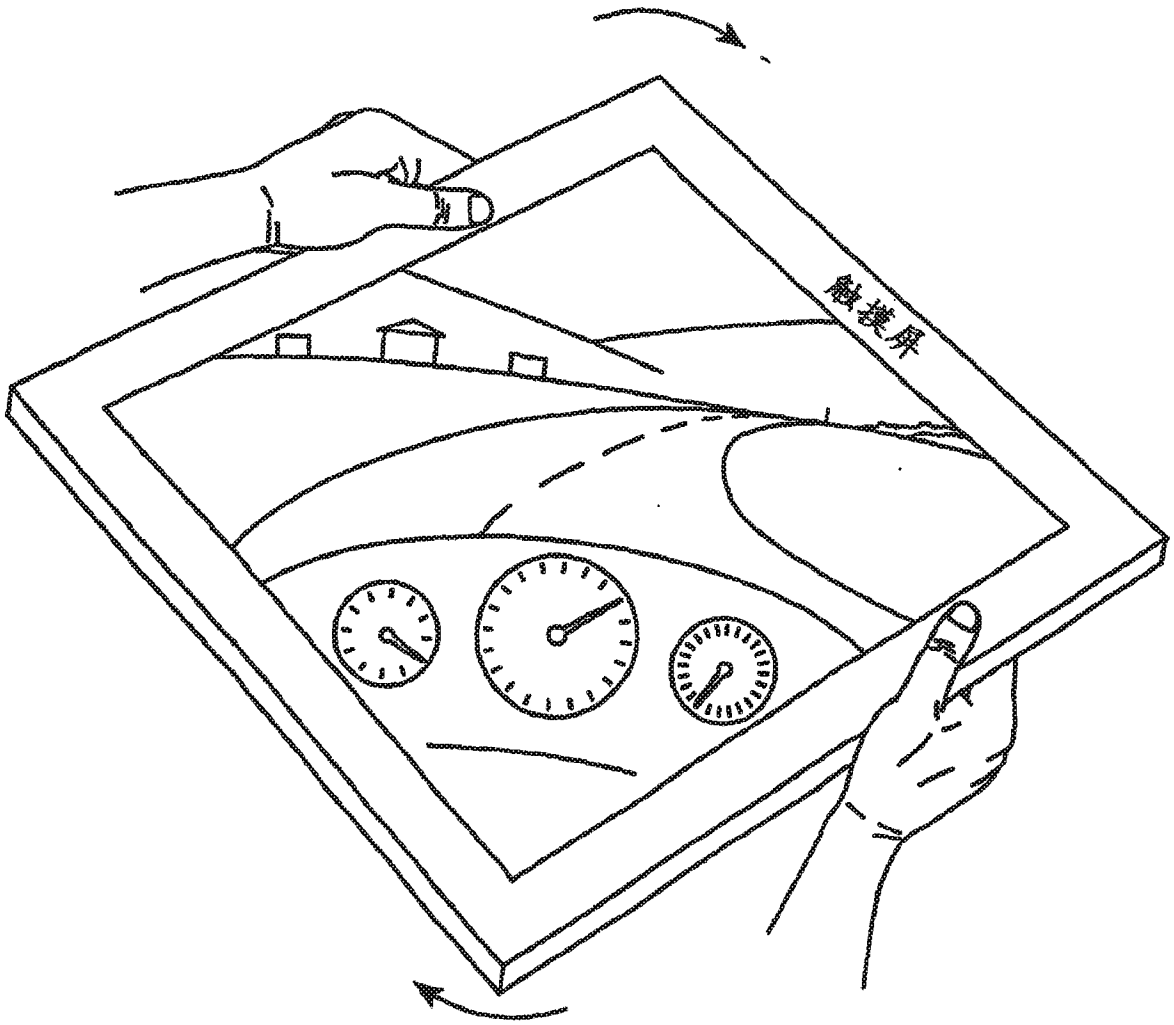


图10B

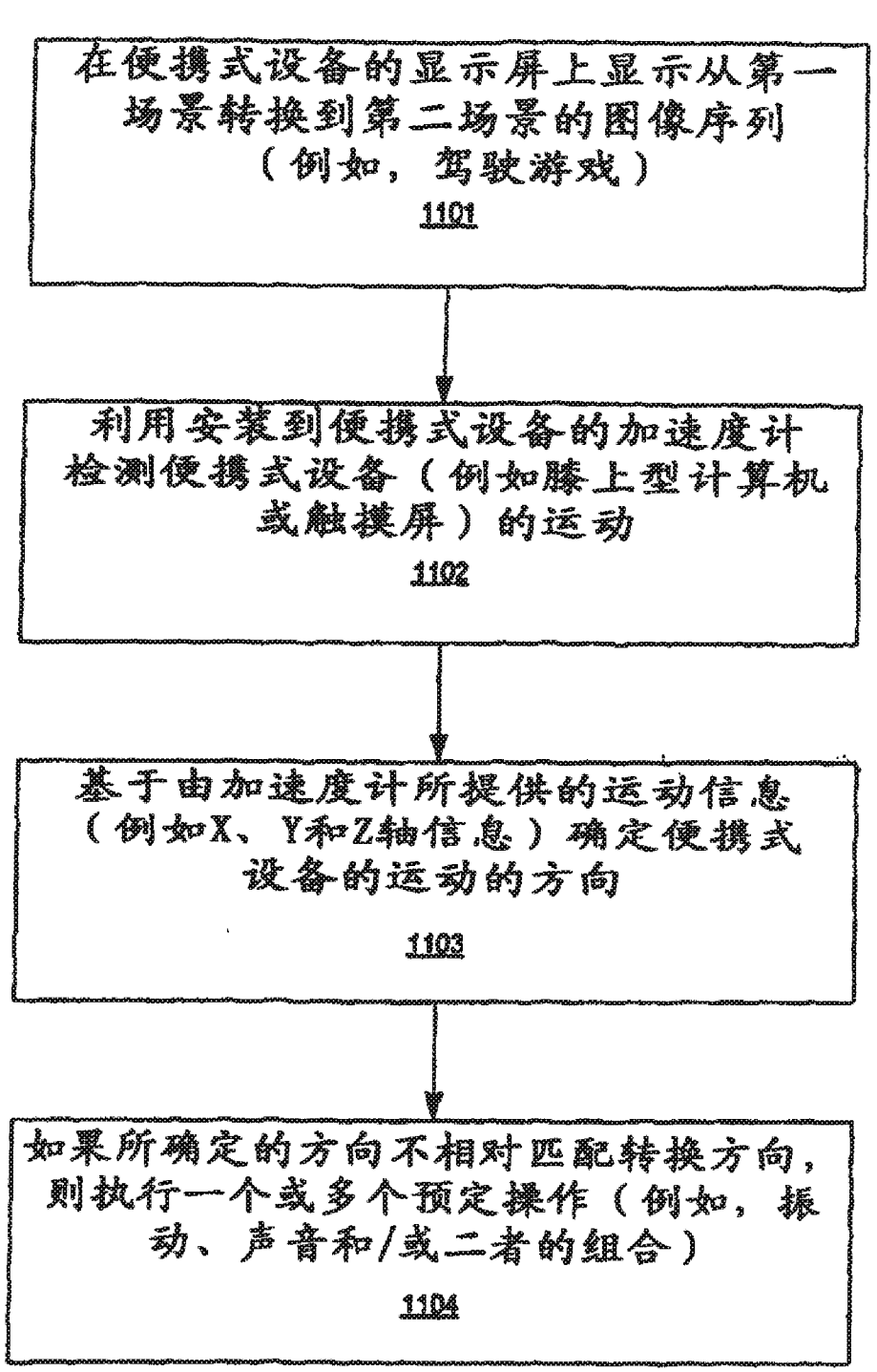

1100
在便携式设备的显示屏上显示从第一场景转换到第二场景的图像序列（例如，驾驶游戏）
1101
利用安装到便携式设备的加速度计检测便携式设备（例如膝上型计算机或触摸屏）的运动
1102
基于由加速度计所提供的运动信息（例如X、Y和Z轴信息）确定便携式设备的运动的方向
1103
如果所确定的方向不相对匹配转换方向，则执行一个或多个预定操作（例如，振动、声音和/或二者的组合）
1104

图11

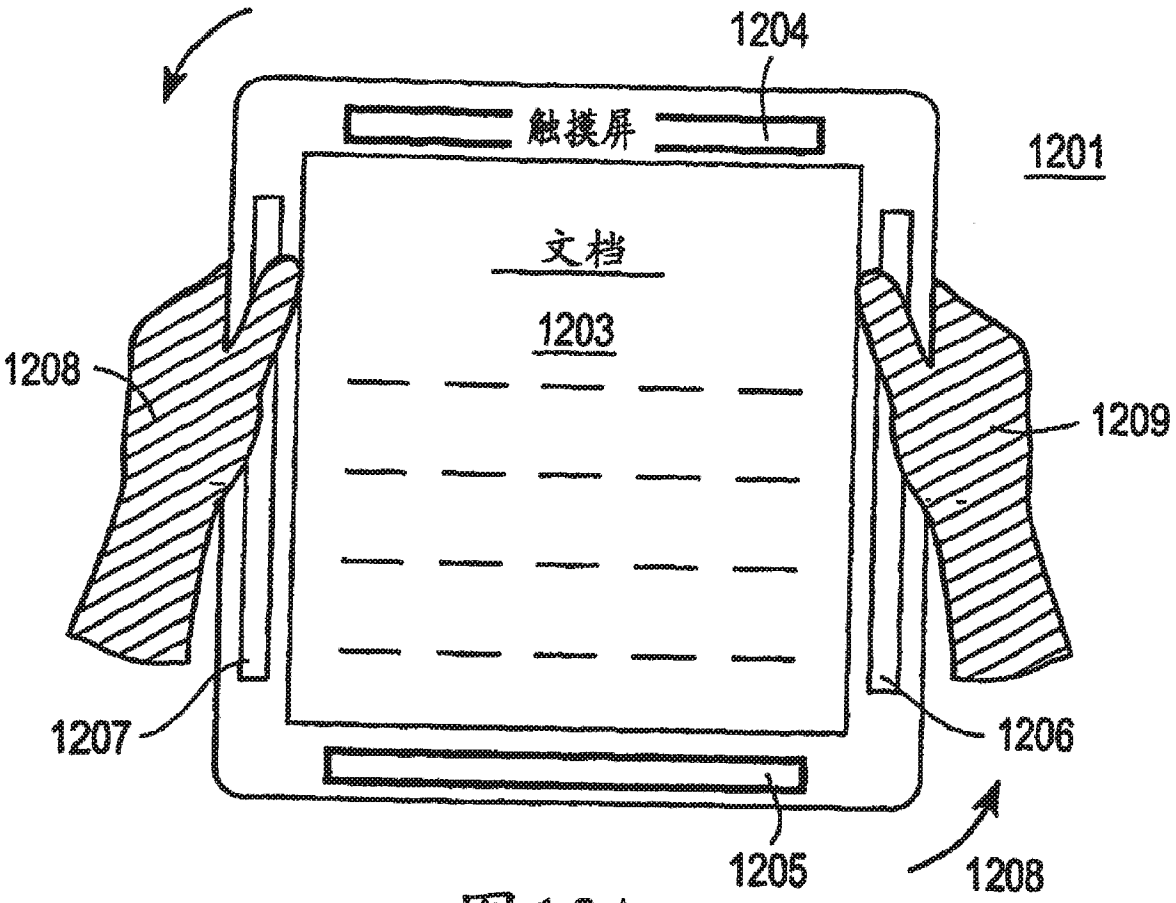


图12A

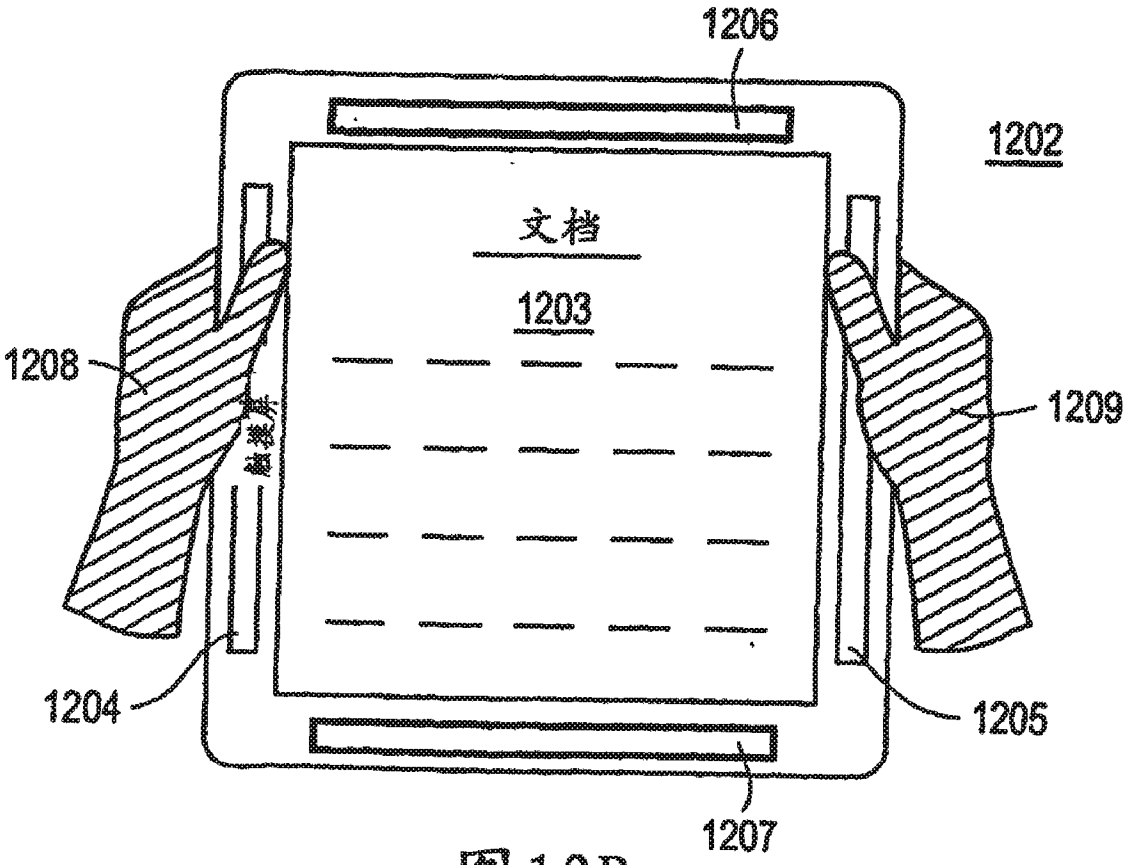


图 12B

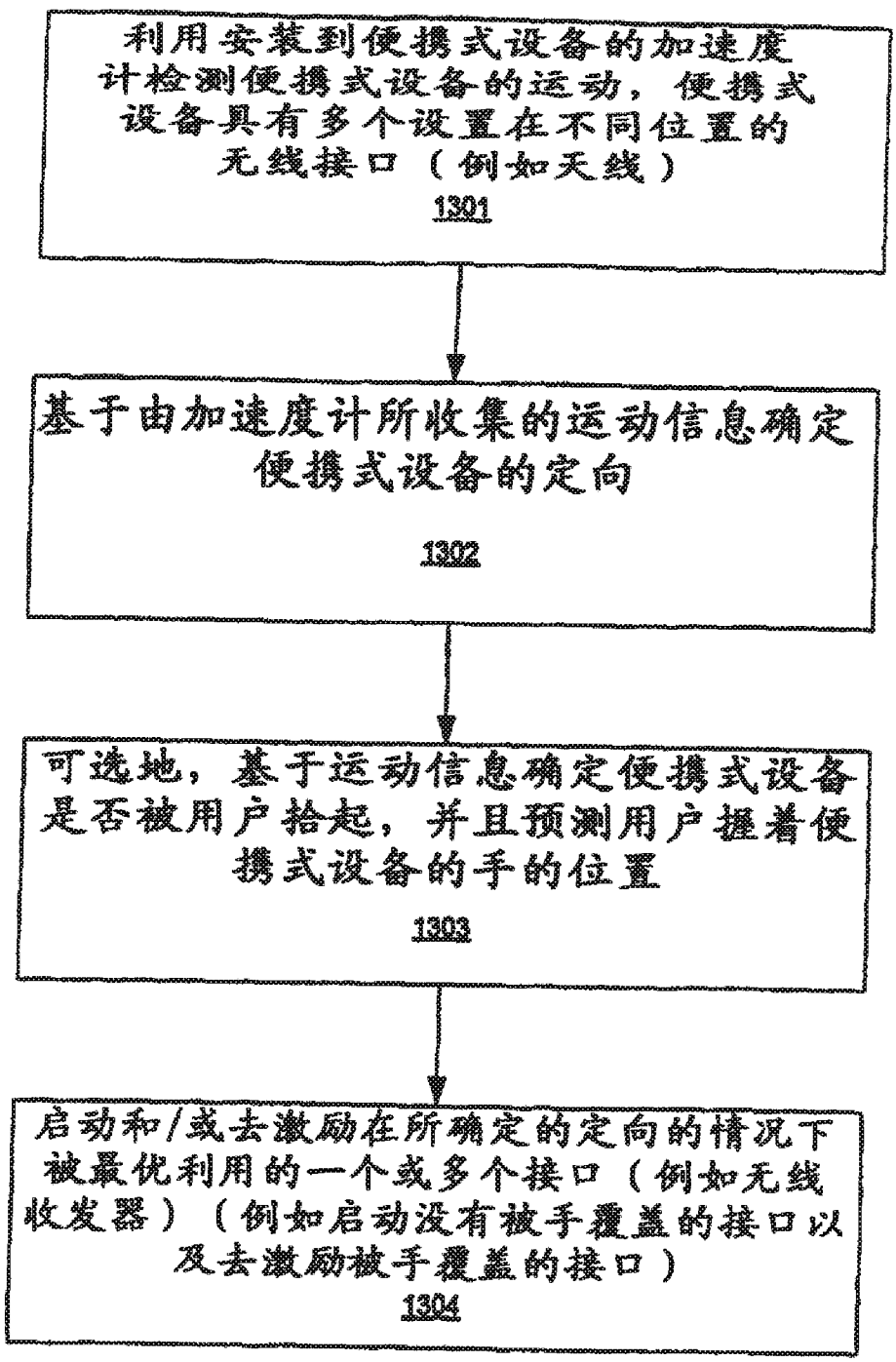

1300
利用安装到便携式设备的加速度计检测便携式设备的运动，便携式设备具有多个设置在不同位置的无线接口（例如天线）
1301
基于由加速度计所收集的运动信息确定便携式设备的定向
1302
可选地，基于运动信息确定便携式设备是否被用户拾起，并且预测用户握着便携式设备的手的位置
1303
启动和/或去激励在所确定的定向的情况下被最优利用的一个或多个接口（例如无线收发器）（例如启动没有被手覆盖的接口以及去激励被手覆盖的接口）
1304

图13

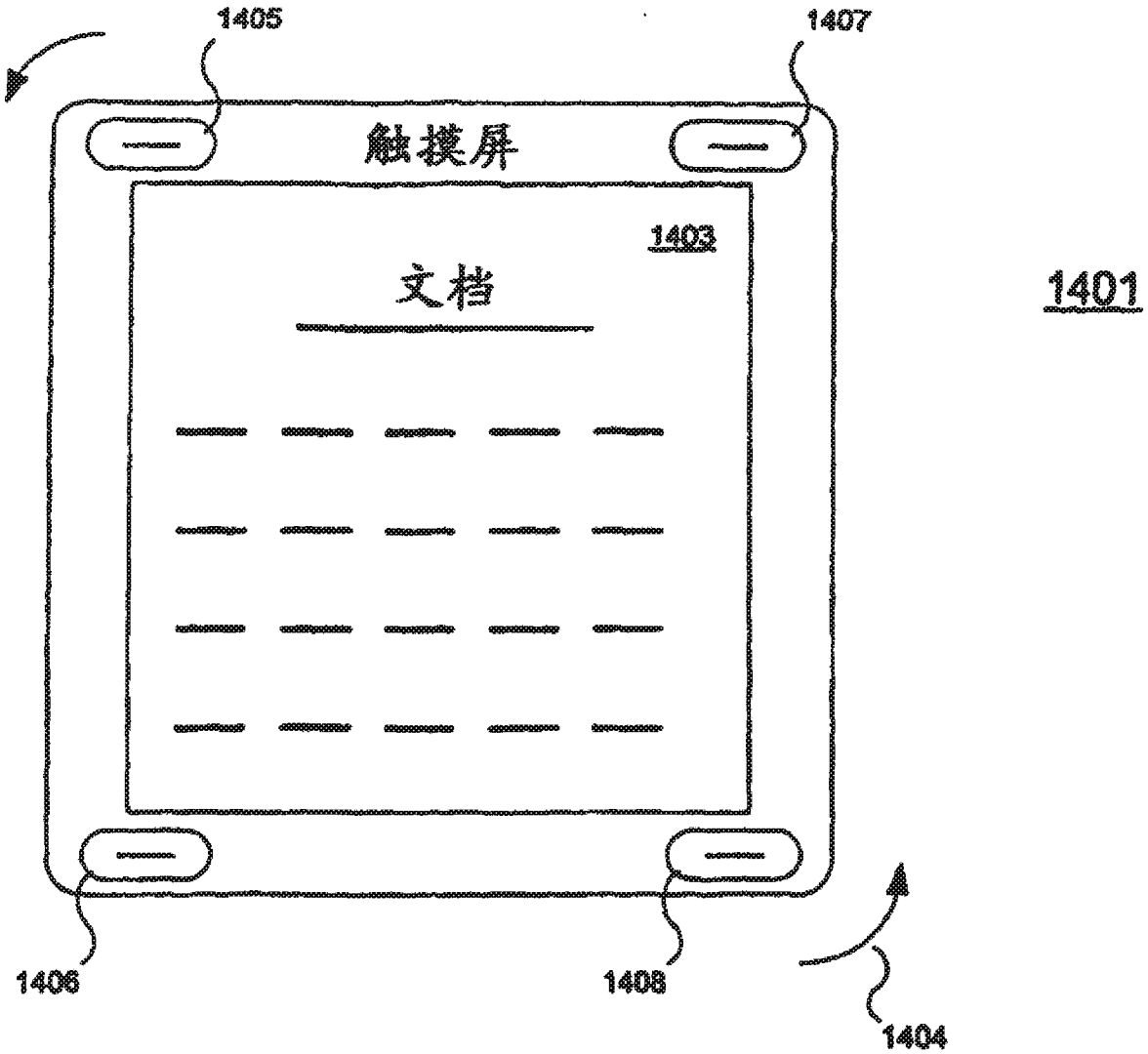


图14A

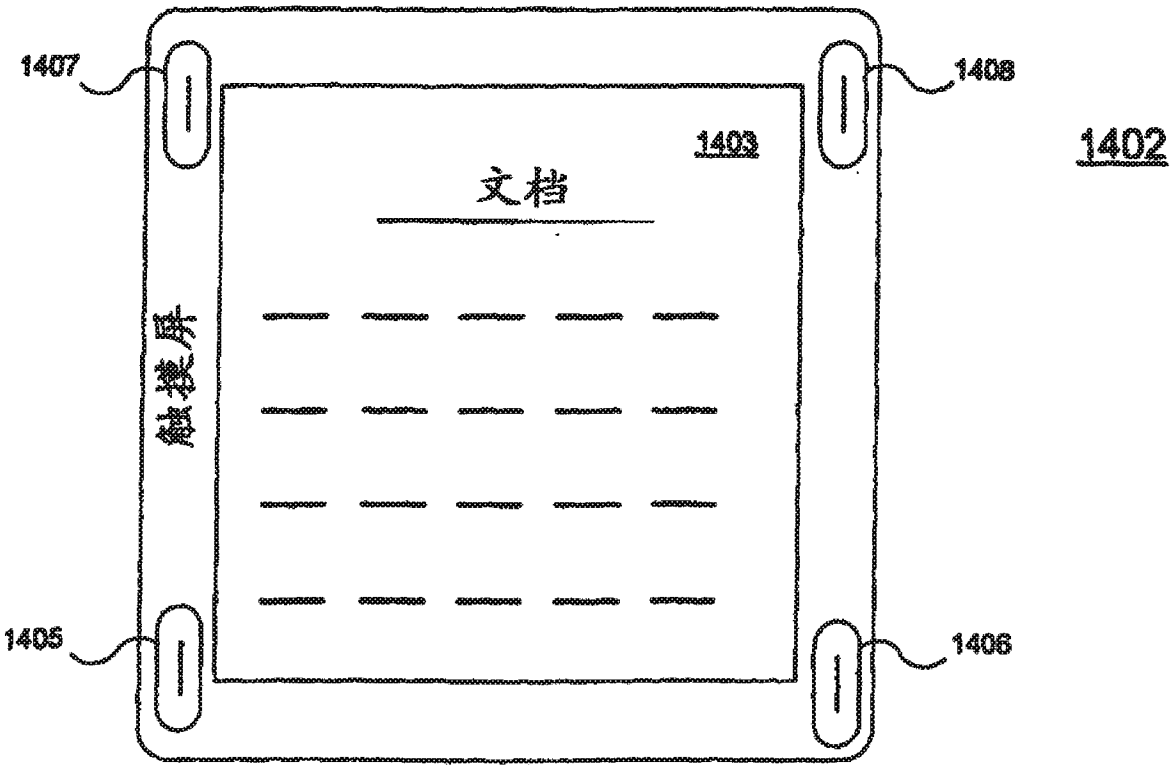


图14B

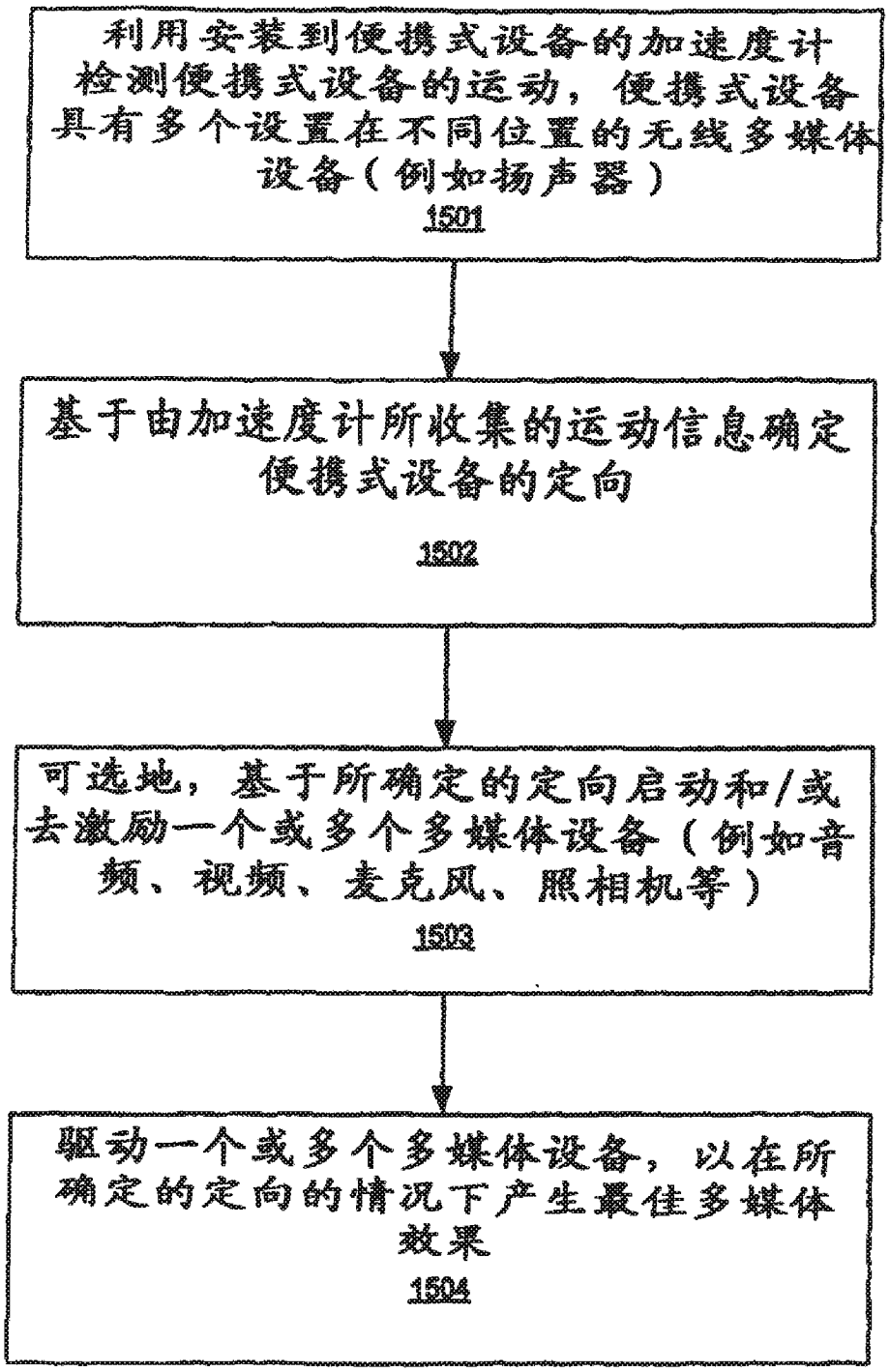

1500
利用安装到便携式设备的加速度计检测便携式设备的运动，便携式设备具有多个设置在不同位置的无线多媒体设备（例如扬声器）
1501
基于由加速度计所收集的运动信息确定便携式设备的定向
1502
可选地，基于所确定的定向启动和/或去激励一个或多个多媒体设备（例如音频、视频、麦克风、照相机等）
1503
驱动一个或多个多媒体设备，以在所确定的定向的情况下产生最佳多媒体效果
1504

图15

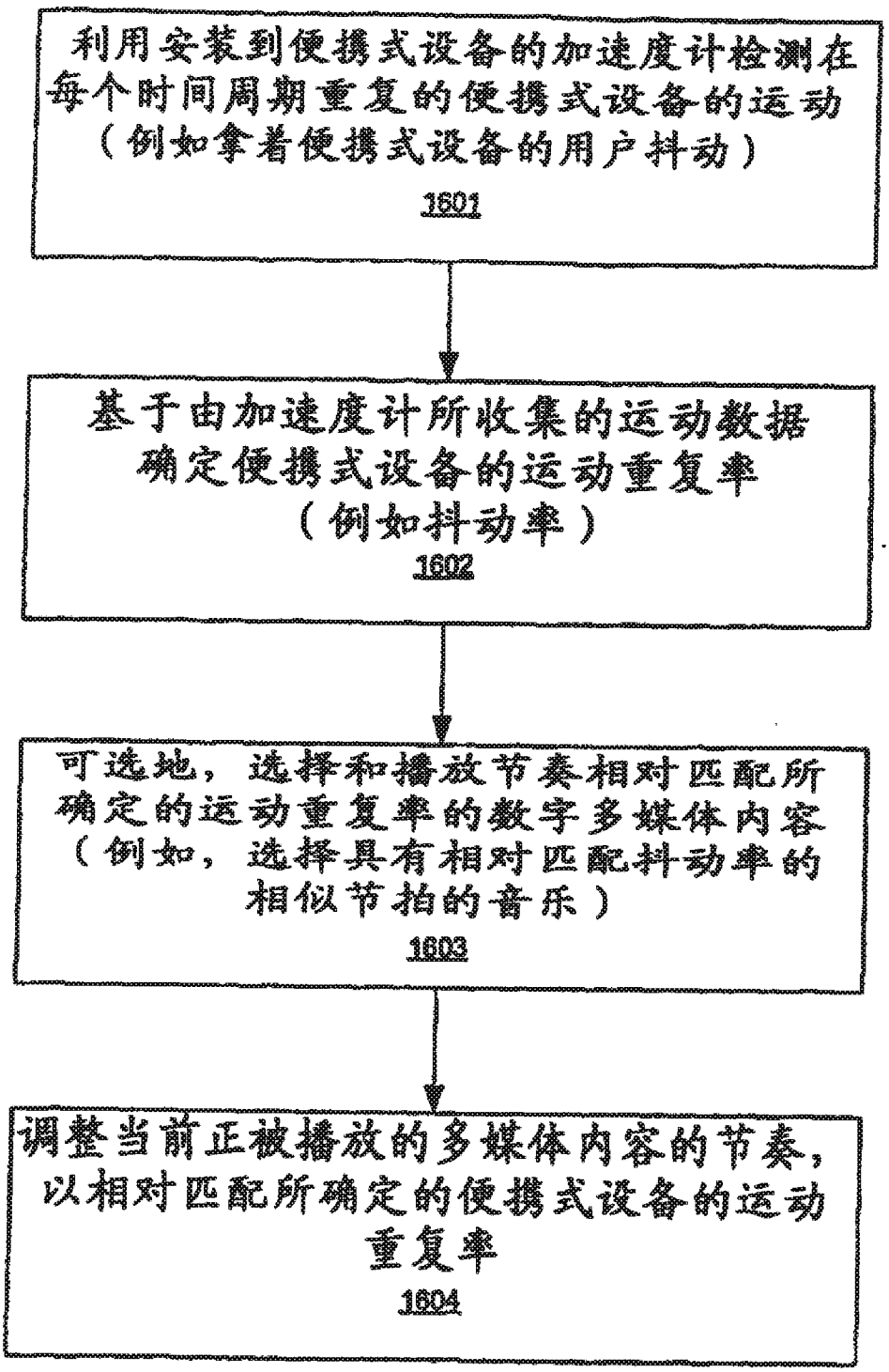

1600
利用安装到便携式设备的加速度计检测在每个时间周期重复的便携式设备的运动（例如拿着便携式设备的用户抖动）
1601
基于由加速度计所收集的运动数据确定便携式设备的运动重复率（例如抖动率）
1602
可选地，选择和播放节奏相对匹配所确定的运动重复率的数字多媒体内容（例如，选择具有相对匹配抖动率的相似节拍的音乐）
1603
调整当前正被播放的多媒体内容的节奏，以相对匹配所确定的便携式设备的运动重复率
1604

图16

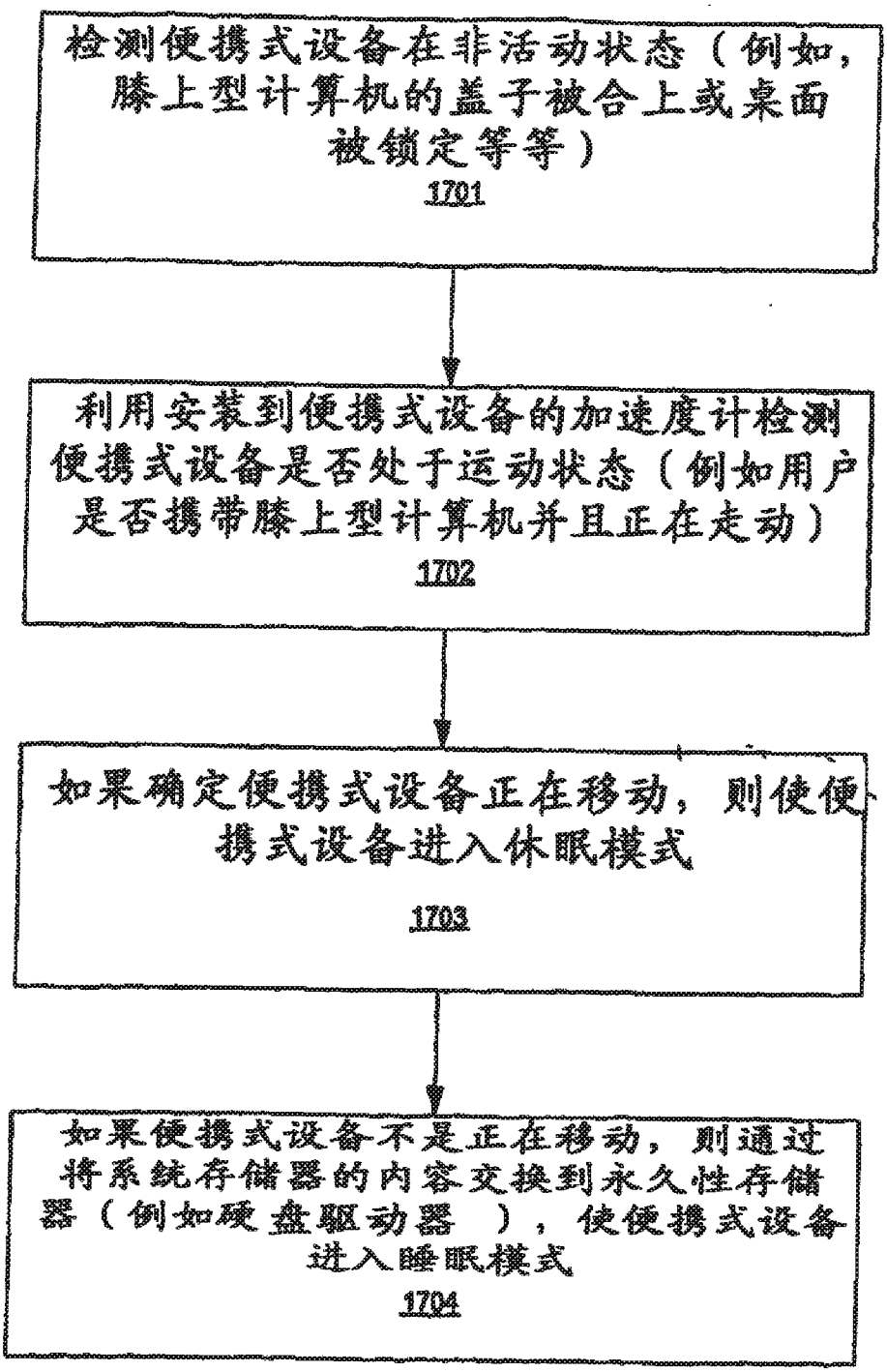

1700
检测便携式设备在非活动状态（例如，膝上型计算机的盖子被合上或桌面被锁定等等）
1701
利用安装到便携式设备的加速度计检测便携式设备是否处于运动状态（例如用户是否携带膝上型计算机并且正在走动）
1702
如果确定便携式设备正在移动，则使便携式设备进入休眠模式
1703
如果便携式设备不是正在移动，则通过将系统存储器的内容交换到永久性存储器（例如硬盘驱动器 ），使便携式设备进入睡眠模式
1704

图17

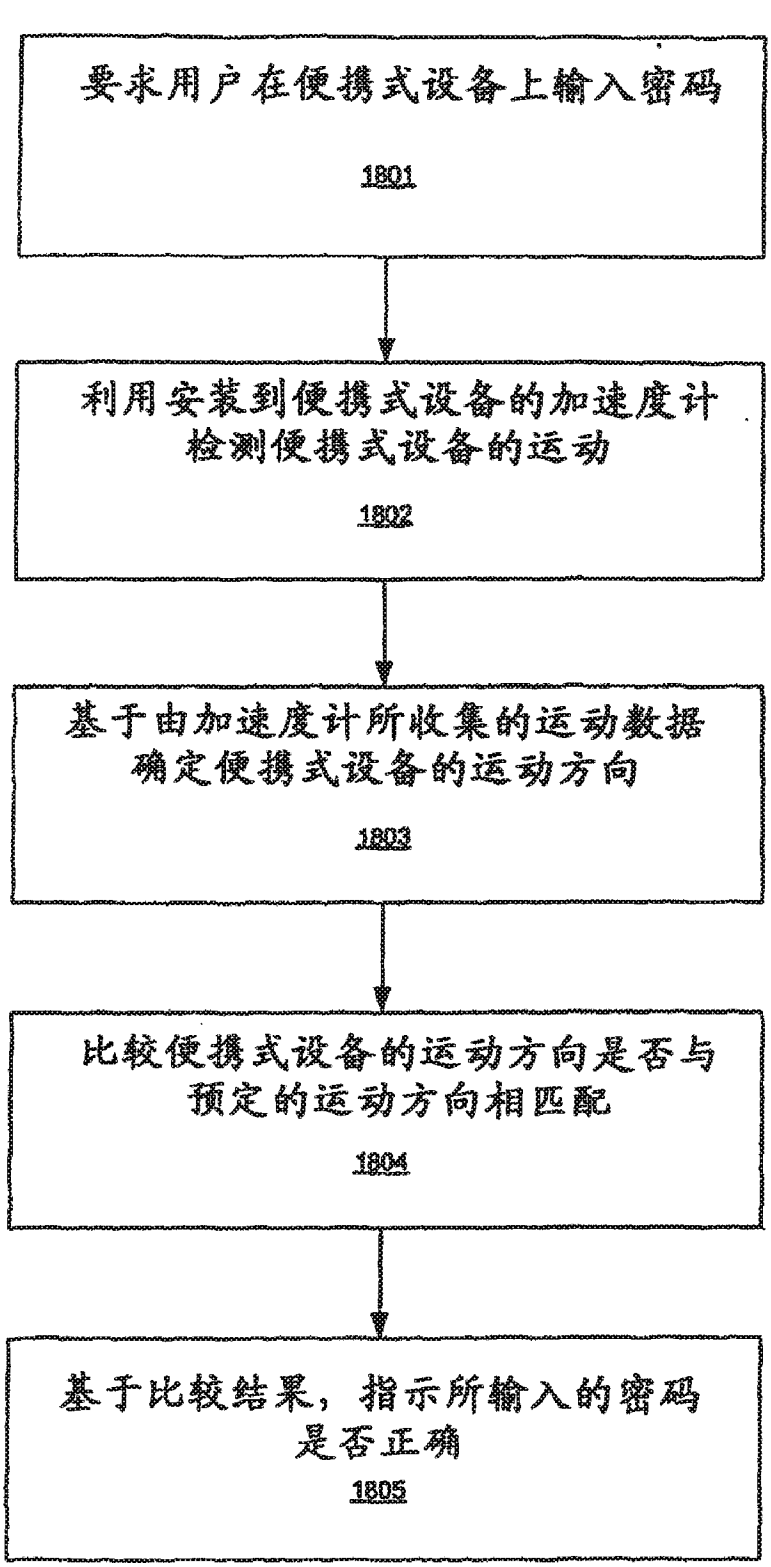

1800
要求用户在便携式设备上输入密码
1801
利用安装到便携式设备的加速度计检测便携式设备的运动
1802
基于由加速度计所收集的运动数据确定便携式设备的运动方向
1803
比较便携式设备的运动方向是否与预定的运动方向相匹配
1804
基于比较结果，指示所输入的密码是否正确
1805

图18

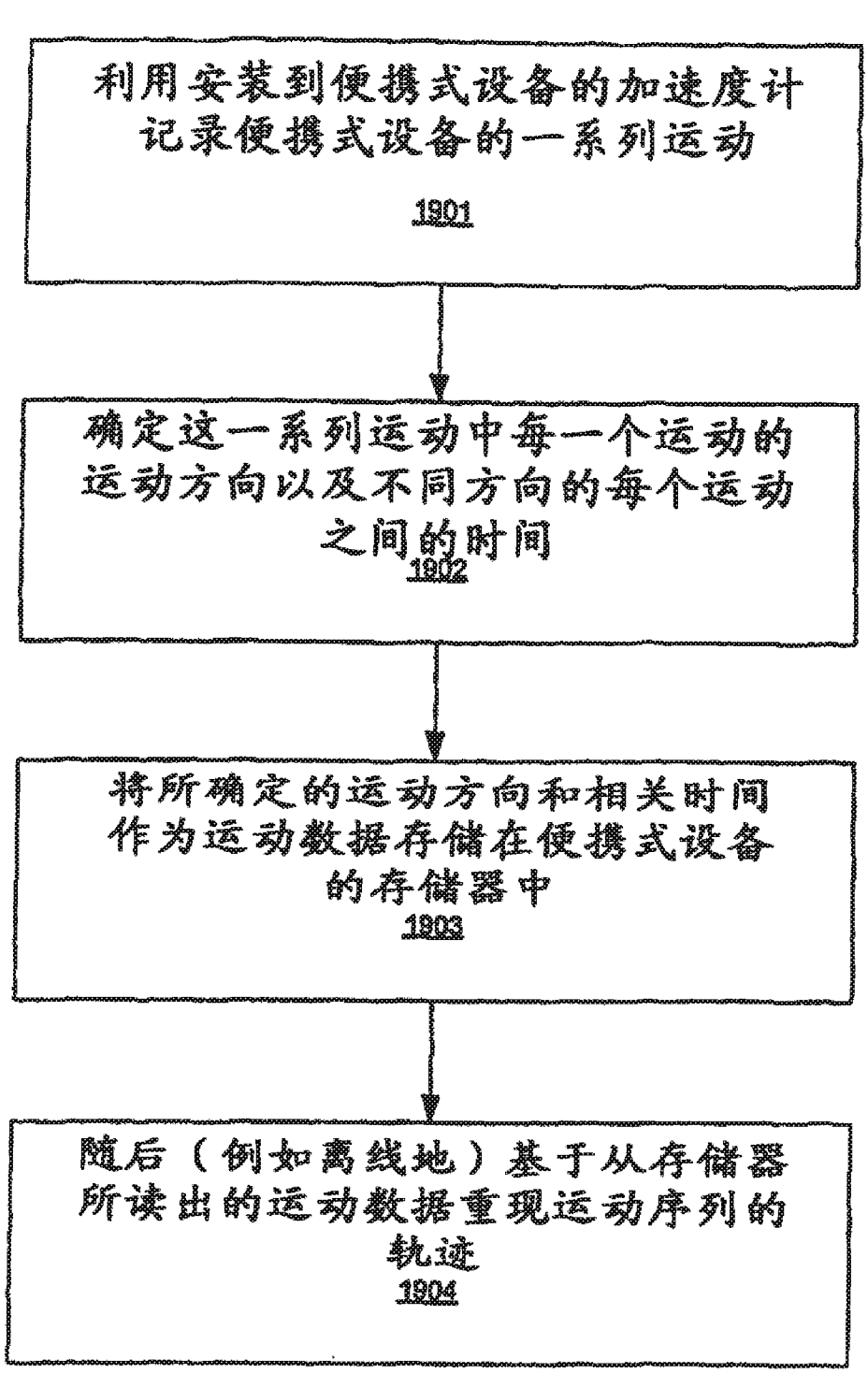

1900
利用安装到便携式设备的加速度计记录便携式设备的一系列运动
1901
确定这一系列运动中每一个运动的运动方向以及不同方向的每个运动之间的时间
1902
将所确定的运动方向和相关时间作为运动数据存储在便携式设备的存储器中
1903
随后（例如离线地）基于从存储器所读出的运动数据重现运动序列的轨迹
1904

图19

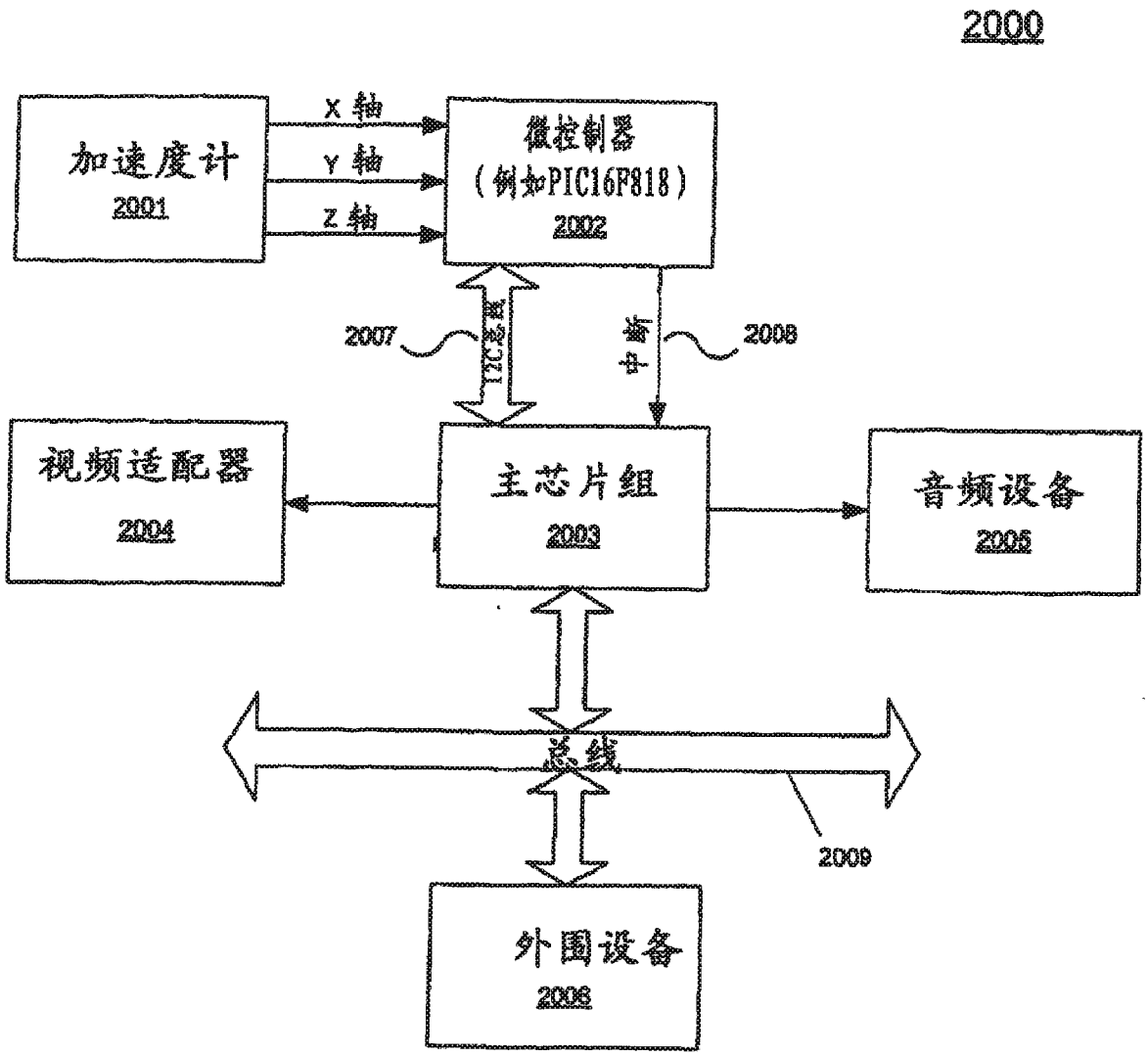

2000
加速度计
2001
X 轴
Y 轴
Z 轴
微控制器
(例如PIC16F818)
2002
2007
I2C 或 SPI
中断
2008
视频适配器
2004
主芯片组
2003
音频设备
2005
总线
2009
外围设备
2006

图20

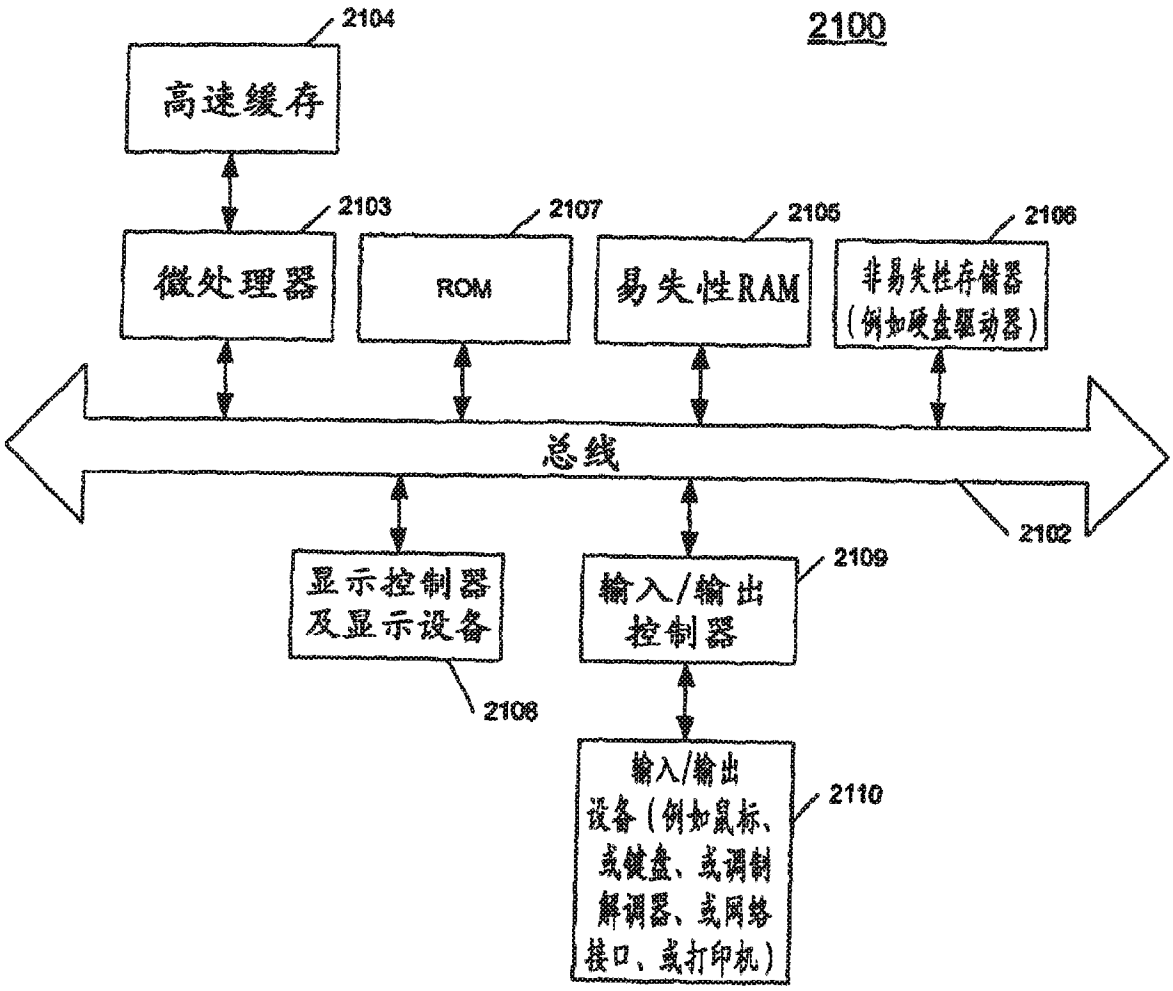

2100
2104
高速缓存
2103
微处理器
2107
ROM
2105
易失性RAM
2106
非易失性存储器
(例如硬盘驱动器)
总线
2102
显示控制器
及显示设备
2108
2109
输入/输出
控制器
输入/输出
设备(例如鼠标、
或键盘、或调制
解调器、或网络
接口、或打印机)
2110

图21

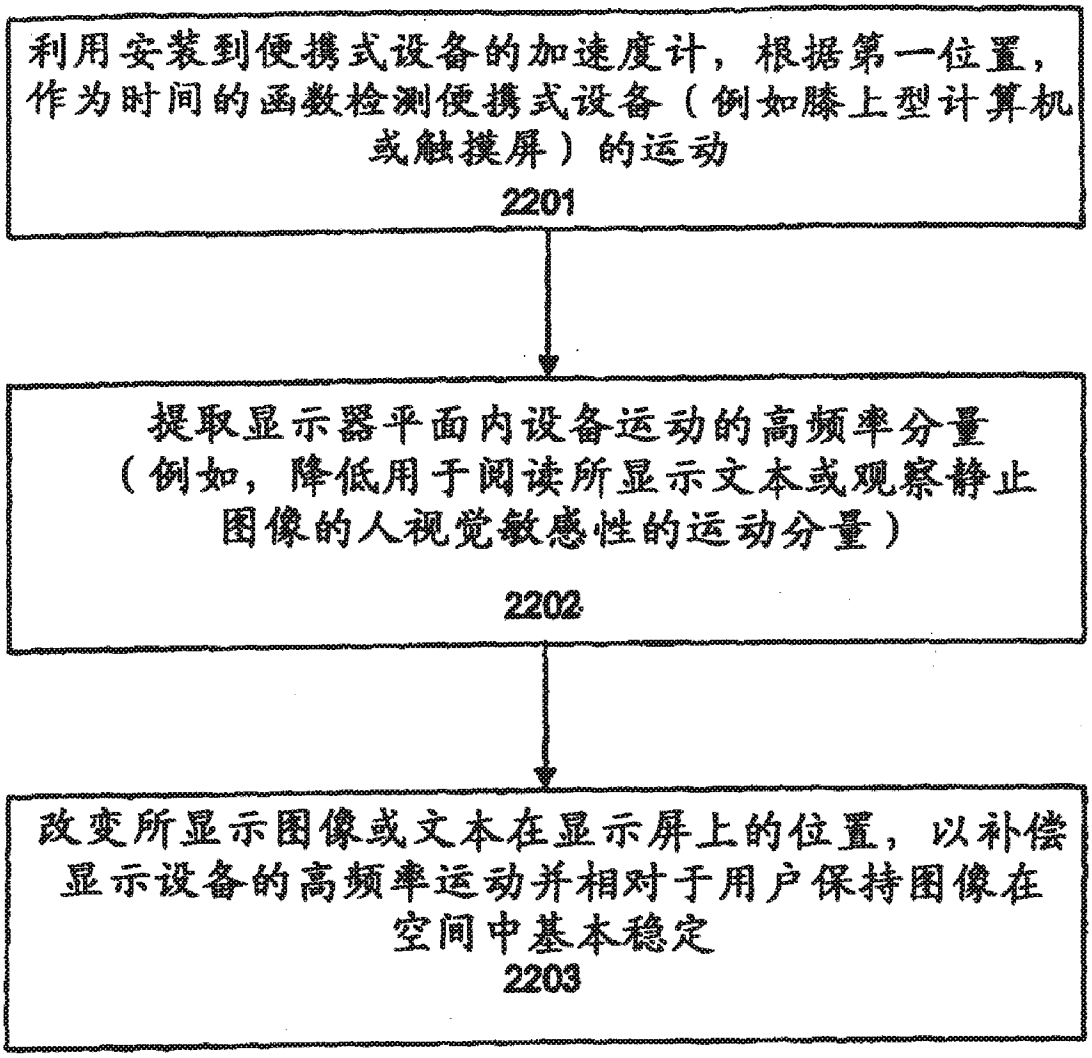

利用安装到便携式设备的加速度计，根据第一位置，作为时间的函数检测便携式设备（例如膝上型计算机或触摸屏）的运动
2201
提取显示器平面内设备运动的高频率分量（例如，降低用于阅读所显示文本或观察静止图像的人视觉敏感性的运动分量）
2202
改变所显示图像或文本在显示屏上的位置，以补偿显示设备的高频率运动并相对于用户保持图像在空间中基本稳定
2203

图22

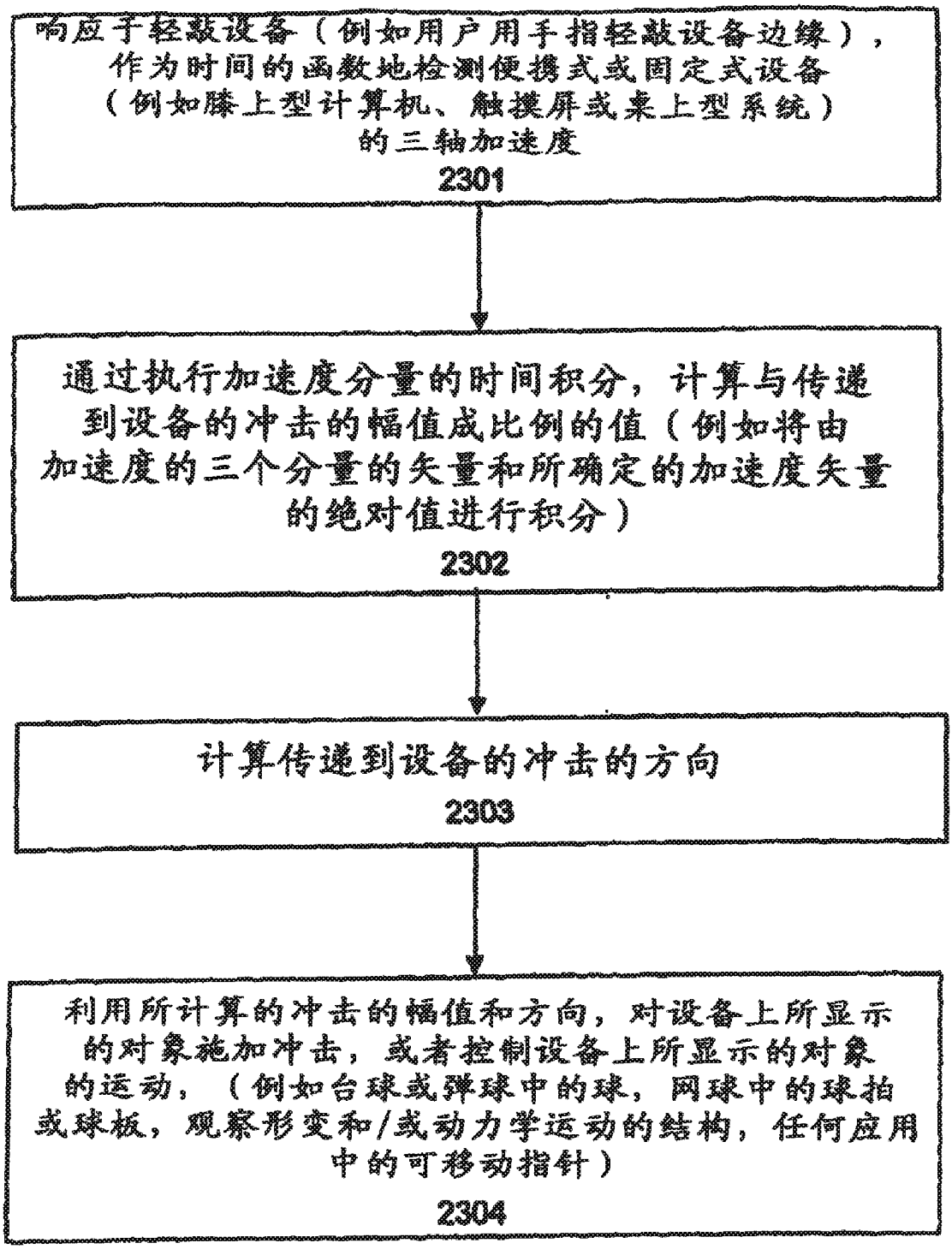

响应于轻敲设备（例如用户用手指轻敲设备边缘），作为时间的函数地检测便携式或固定式设备（例如膝上型计算机、触摸屏或桌上型系统）的三轴加速度
2301
通过执行加速度分量的时间积分，计算与传递到设备的冲击的幅值成比例的值（例如将由加速度的三个分量的矢量和所确定的加速度矢量的绝对值进行积分）
2302
计算传递到设备的冲击的方向
2303
利用所计算的冲击的幅值和方向，对设备上所显示的对象施加冲击，或者控制设备上所显示的对象的运动，（例如台球或弹球中的球，网球中的球拍或球板，观察形变和/或动力学运动的结构，任何应用中的可移动指针）
2304

图23

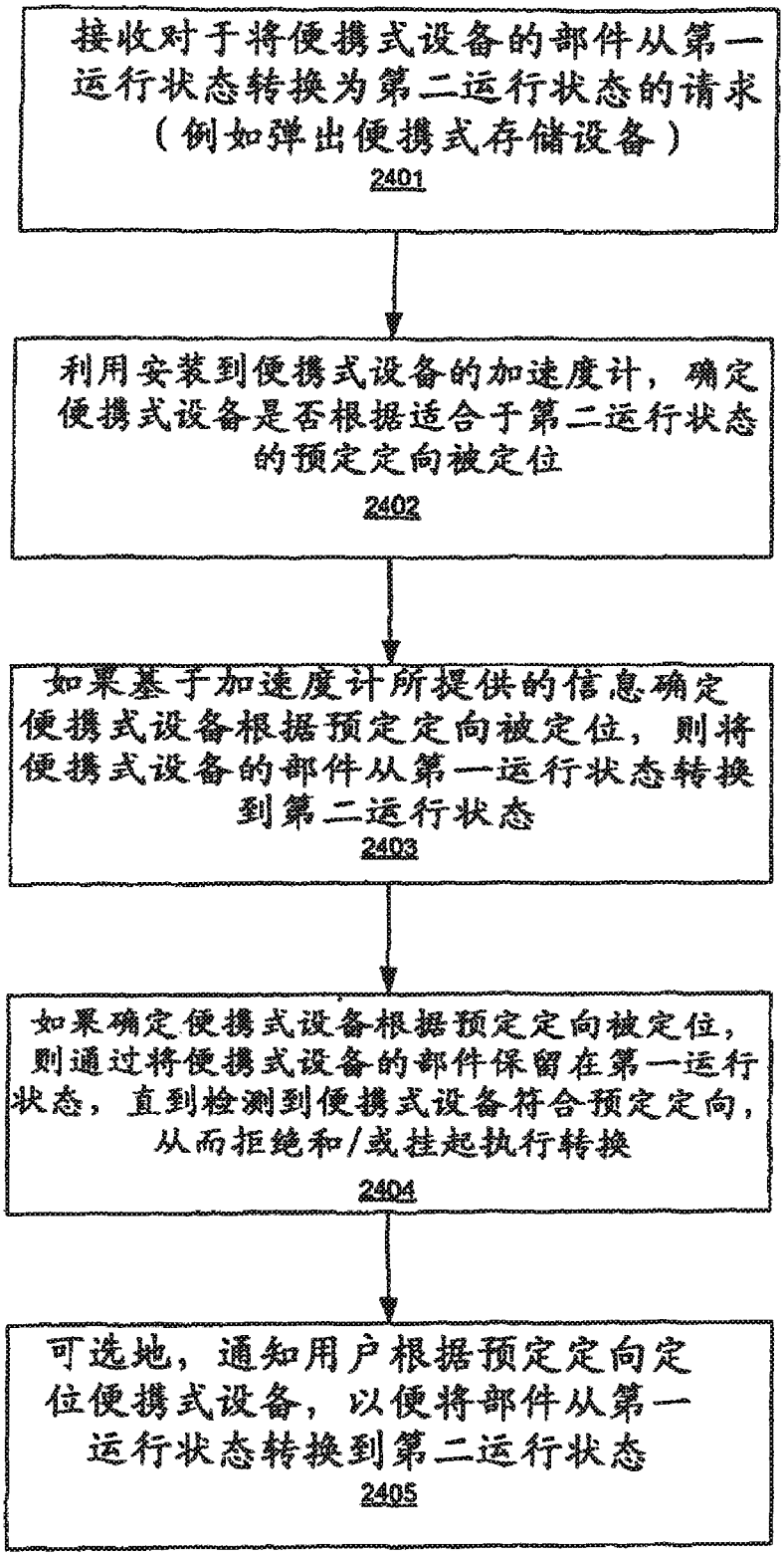

接收对于将便携式设备的部件从第一运行状态转换为第二运行状态的请求（例如弹出便携式存储设备）
2401
利用安装到便携式设备的加速度计，确定便携式设备是否根据适合于第二运行状态的预定定向被定位
2402
如果基于加速度计所提供的信息确定便携式设备根据预定定向被定位，则将便携式设备的部件从第一运行状态转换到第二运行状态
2403
如果确定便携式设备根据预定定向被定位，则通过将便携式设备的部件保留在第一运行状态，直到检测到便携式设备符合预定定向，从而拒绝和/或挂起执行转换
2404
可选地，通知用户根据预定定向定位便携式设备，以便将部件从第一运行状态转换到第二运行状态
2405

图24

Electronic Patent Application Fee Transmittal

Application Number:	14680422
Filing Date:	07-Apr-2015
Title of Invention:	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
First Named Inventor/Applicant Name:	Yves Behar
Filer:	Marcus E. Browne/Lynn McNamara
Attorney Docket Number:	L2039.70004US03

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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

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

Electronic Acknowledgement Receipt

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

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	74001 cc1d8a355f0776d65d5bf3a47d93c8b5ff2fc39a	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	L203970004US03-FEE-MEB.pdf	91192 009d502a943552438e3726e24ece2db1ef83ddb6	no	1
Warnings:					
Information:					
3		L203970004US03-IDS-MEB.pdf	90359 659f95c902db06aa8b5c3c8a294aa2a4bba48009	yes	4

Multipart Description/PDF files in .zip description

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

Warnings:					
Information:					
4	Foreign Reference	CN1926496.pdf	1217406 a9caaaf30c930fab5a37eed86d30235706975ed8	no	83
Warnings:					
Information:					
5	Other Reference-Patent/App/Search documents	L203970001CA00_OA_dated_08-18-2017.pdf	172859 4676e87eac5984630d2256b7bdda88a48bc4f933	no	5
Warnings:					
Information:					

6	Fee Worksheet (SB06)	fee-info.pdf	31016 8dd4dcf0d4e3238e93184e7cc7f49b653e99eec6	no	2

Warnings:	
Information:	
Total Files Size (in bytes):	1676833

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.

Doc Code: TRAN.LET
Document Description: Transmittal Letter

USED IN LIEU OF PTO/SB/21 (07-09)

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	

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
Attorney Docket Number	L2039.70004US03

ENCLOSURES (*Check all that apply*)

- [x] Fee Transmittal Form
  - [ ] Fee Attached
- [ ] Amendment/Reply
  - [ ] After Final
  - [ ] Affidavits/declaration(s)
- [ ] Extension of Time Request
- [ ] Express Abandonment Request
- [x] Information Disclosure Statement
- [ ] Certified Copy of Priority Document(s)
- [ ] Reply to Missing Parts/ Incomplete Application
  - [ ] Reply to Missing Parts under 37 CFR 1.52 or 1.53
- [ ] Drawing(s)
- [ ] Licensing-related Papers
- [ ] Petition
- [ ] Petition to Convert to a Provisional Application
- [ ] Power of Attorney, Revocation Change of Correspondence Address
- [ ] Terminal Disclaimer
- [ ] Request for Refund
- [ ] CD, Number of CD(s) _____
  - [ ] Landscape Table on CD
- [ ] After Allowance Communication to TC
- [ ] Appeal Communication to Board of Appeals and Interferences
- [ ] Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- [ ] Proprietary Information
- [ ] Status Letter
- [x] 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

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: 10-05-2017 Signature: /Lynn P. McNamara/ (Lynn P. McNamara)

FEE TRANSMITTAL

Complete if known	
Application Number	14/680,422-Conf. #5691
Filing Date	April 7, 2015
First Named Inventor	Yves Behar
Examiner Name	Claudia B. Dragoescu
Art Unit	2141
Practitioner Docket No.	L2039.70004US03

☐ Applicant asserts small entity status. See 37 CFR 1.27.

☐ 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.

TOTAL AMOUNT OF PAYMENT ($)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)

	FILING FEES			SEARCH FEES			EXAMINATION FEES			
Application Type	**U ($)**	**S ($)**	**M ($)**	**U ($)**	**S ($)**	**M ($)**	**U ($)**	**S ($)**	**M ($)**	**Fees Paid ($)**
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**	
		x	=	**Fee ($)**	**Fee Paid ($)**

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)

	Fees Paid ($)
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): 1806 Submission of an Information Disclosure Statement	180.00

SUBMITTED BY

Signature	/Marcus E. Browne/	Registration No. (Attorney/Agent)	71,897	Telephone	617.646.8000
Name (Print/Type)	Marcus E. Browne			Date	October 5, 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: 10-05-2017 Signature: /Lynn P. McNamara/ (Lynn P. McNamara)

DOCKET NO.: L2039.70004US03

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 5th 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

FORM PTO-1449/A and B (modified PTO/SB/08)				APPLICATION NO.: 14/680,422	ATTY. DOCKET NO.: L2039.70004US03
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FILING DATE: April 07, 2015	CONFIRMATION NO.: 5691
				FIRST NAMED INVENTOR: Yves Behar	
Sheet	1	of	1	GROUP ART UNIT: 2141	EXAMINER: Claudia B. Dragoescu

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)
		Office/ Country	Number	Kind Code			
		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).	

[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:	DATE CONSIDERED:
/CLAUDIA B DRAGOESCU/	10/16/2017

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

Doc Code: TRAN.LET
Document Description: Transmittal Letter

USED IN LIEU OF PTO/SB/21 (07-09)

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	

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
Attorney Docket Number	L2039.70004US03

ENCLOSURES (*Check all that apply*)

- [ ] Fee Transmittal Form
  - [ ] Fee Attached
- [ ] Amendment/Reply
  - [ ] After Final
  - [ ] Affidavits/declaration(s)
- [ ] Extension of Time Request
- [ ] Express Abandonment Request
- [ ] Information Disclosure Statement
- [ ] Certified Copy of Priority Document(s)
- [ ] Reply to Missing Parts/ Incomplete Application
  - [ ] Reply to Missing Parts under 37 CFR 1.52 or 1.53
- [ ] Drawing(s)
- [ ] Licensing-related Papers
- [ ] Petition
- [ ] Petition to Convert to a Provisional Application
- [ ] Power of Attorney, Revocation Change of Correspondence Address
- [ ] Terminal Disclaimer
- [ ] Request for Refund
- [ ] CD, Number of CD(s) _____
  - [ ] Landscape Table on CD
- [ ] After Allowance Communication to TC
- [ ] Appeal Communication to Board of Appeals and Interferences
- [ ] Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- [ ] Proprietary Information
- [ ] Status Letter
- [x] Other Enclosure(s) (please Identify below):

  Issue Fee Payment - PTOL-85 Part B

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

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: 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	

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- [ ] Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- [ ] "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

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

1 Wolf, Greenfield & Sacks, P.C.
2
3

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

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

(A) NAME OF ASSIGNEE: 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 [X] Corporation or other private group entity [ ] Government

4a. The following fee(s) are submitted:
- [X] 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.
- [X] Payment by credit card. ~~Form PTO-2038 is attached~~.
- [X] The Director is hereby authorized to charge ~~the required fee(s),~~ any deficiency, or credit any overpayment, to Deposit Account Number 23/2825 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- [ ] Applicant certifying micro entity status. See 37 CFR 1.29
  NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- [ ] Applicant asserting small entity status. See 37 CFR 1.27
  NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- [ ] Applicant changing to regular undiscounted fee status.
  NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature /Marcus E. Browne/ Date December 19, 2017

Typed or printed name Marcus E. Browne Registration No. 71,897

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:
   Mail Stop Issue Fee
   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/	December 19, 2017
Signature	Date
Trish McDonald	617.646.8000
Typed or printed name	Telephone number

Note: Each paper must have its own certificate of mailing or transmission, or this certificate must identify each submitted paper:

Issue Fee Transmittal (1 page)

Electronic Patent Application Fee Transmittal

Application Number:	14680422
Filing Date:	07-Apr-2015
Title of Invention:	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
First Named Inventor/Applicant Name:	Yves Behar
Filer:	Marcus E. Browne/Trish McDonald
Attorney Docket Number:	L2039.70004US03

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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

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

Electronic Acknowledgement Receipt

EFS ID:	31277867
Application Number:	14680422
International Application Number:	
Confirmation Number:	5691
Title of Invention:	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
First Named Inventor/Applicant Name:	Yves Behar
Customer Number:	23628
Filer:	Marcus E. Browne/Trish McDonald
Filer Authorized By:	Marcus E. Browne
Attorney Docket Number:	L2039.70004US03
Receipt Date:	19-DEC-2017
Filing Date:	07-APR-2015
Time Stamp:	16:57:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$960
RAM confirmation Number	122017INTEFSW16580100
Deposit Account	
Authorized User	

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

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	L203970004US03-TRN-MEB.pdf	24737 bddc7e5495ccb8c489a7bf5cc5500bbb108d3915	no	1
Warnings:					
Information:					
2	Issue Fee Payment (PTO-85B)	L203970004US03-ISSFEE-MEB.pdf	49372 1e83e43f7e796aae8196efb97aec0219b8244175	no	2
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30920 e194a687c72976dd734f4b518d138f240bb84667	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	105029		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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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;

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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

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 C.F.R. § 1.6(a)(4).

Dated: April 4, 2018 Electronic Signature for: /Eileen M. MacKenzie/

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)".

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

PTO/SB/44 (09-07)
Approved for use through 01/31/2020. OMB 0651-0033
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.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

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

Electronic Patent Application Fee Transmittal

Application Number:	14680422
Filing Date:	07-Apr-2015
Title of Invention:	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
First Named Inventor/Applicant Name:	Yves Behar
Filer:	Edward J. Russavage/Eileen MacKenzie
Attorney Docket Number:	L2039.70004US03

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Certificate of correction	1811	1	150	150

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**150**

Electronic Acknowledgement Receipt

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

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-EJR.pdf	26460 a1e11541ddf143fe5eb051fe0e9f03cabf805768	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	L203970004US03-FEE-EJR.pdf	31252 0bc774f401501e2b95507331fcf6b34d8a6a7ddc	no	1
Warnings:					
Information:					
3	Request for Certificate of Correction	L203970004US03-RCOC-EJR.pdf	25137 6f66f46f3d25413ec8010e7c7c6aaf02782ed132	no	2
Warnings:					
Information:					
4	Request for Certificate of Correction	L203970004US03-COC-EJR.pdf	13716 d7f78c27d1e72379de89d2cc952763a7e408ab37	no	1
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	30819 cf69fc9340c0118ca75ca359dc46ebe42bb532f3	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	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.

Doc Code: TRAN.LET
Document Description: Transmittal Letter

USED IN LIEU OF PTO/SB/21 (07-09)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)			
		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*)

[X] Fee Transmittal Form	[ ] Drawing(s)	[ ] After Allowance Communication to TC
[ ] Fee Attached	[ ] Licensing-related Papers	[ ] Appeal Communication to Board of Appeals and Interferences
[ ] Amendment/Reply	[ ] Petition	[ ] Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
[ ] After Final	[ ] Petition to Convert to a Provisional Application	[ ] Proprietary Information
[ ] Affidavits/declaration(s)	[ ] Power of Attorney, Revocation Change of Correspondence Address	[ ] Status Letter
[ ] Extension of Time Request	[ ] Terminal Disclaimer	[X] Other Enclosure(s) (please Identify below):
[ ] Express Abandonment Request	[ ] Request for Refund	• Request for Certificate of Correction
[ ] Information Disclosure Statement	[ ] CD, Number of CD(s) _____	• Certificate of Correction
[ ] Certified Copy of Priority Document(s)	[ ] Landscape Table on CD	
[ ] Reply to Missing Parts/ Incomplete Application	Remarks	
[ ] Reply to Missing Parts under 37 CFR 1.52 or 1.53		

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

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 C.F.R. § 1.6(a)(4).

Dated: April 4, 2018 Electronic Signature for: /Eileen M. MacKenzie/

6135204.1

FEE TRANSMITTAL

Complete if known	
Application Number	Patent #: 9,880,715
Filing Date	Issued: January 30, 2018
First Named Inventor	Yves Behar
Examiner Name	C. B. Dragoescu
Art Unit	2141
Practitioner Docket No.	L2039.70004US03

[ ] Applicant asserts small entity status. See 37 CFR 1.27.

[ ] 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.

TOTAL AMOUNT OF PAYMENT ($)150.00

METHOD OF PAYMENT (check all that apply)

[ ] Check [X] Credit Card [ ] Money Order [ ] None [ ] Other (please identify): _____

[X] 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**

[X] Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 [X] 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)

	FILING FEES			SEARCH FEES			EXAMINATION FEES			
Application Type	**U ($)**	**S ($)**	**M ($)**	**U ($)**	**S ($)**	**M ($)**	**U ($)**	**S ($)**	**M ($)**	**Fees Paid ($)**
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 ($)**	**Fee Paid ($)**
_____ - 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.

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

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)

	Fees Paid ($)
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

SUBMITTED BY

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

Certificate of Electronic Filing under 37 C.F.R. § 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 C.F.R. § 1.6(a)(4).

Dated: April 4, 2018 Electronic Signature for: /Eileen M. MacKenzie/

6135243.1

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.

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

Trials@uspto.gov
571-272-7822

Paper: 6
Entered: October 21, 2021

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

LENOVO (UNITED STATES) INC.,
Petitioner,

v.

LITL LLC,
Patent Owner.

IPR2021-00786
Patent 9,880,715 B2

Before MICHELLE N. ANKENBRAND, GARTH D. BAER, and BRIAN D. RANGE, *Administrative Patent Judges*.

RANGE, *Administrative Patent Judge*.

DECISION
Denying Institution of *Inter Partes* Review
35 U.S.C. § 314

I. INTRODUCTION

Lenovo (United States) Inc. ("Petitioner") filed a Petition (Paper 1, "Pet.") requesting an *inter partes* review of claims 1–20 of U.S. Patent No. 9,880,715 B2 (Ex. 1001, "the '715 patent"). LiTL LLC ("Patent Owner") filed a Preliminary Response. Paper 5 ("Prelim. Resp.").

Petitioner identifies Lenovo (United States) Inc. and Lenovo (Beijing) Limited as the real parties in interest, and further notes that Lenovo (United States) Inc. is "an indirect wholly-owned subsidiary of Lenovo Group Limited." Pet. 2. Patent Owner identifies LiTL LLC as the real party in interest. Paper 4, 1.

We have authority to determine whether to institute an *inter partes* review. *See* 35 U.S.C. § 314; 37 C.F.R. § 42.4(a) (2020). The standard for institution is set forth in 35 U.S.C. § 314(a), which provides that *inter partes* review may not be instituted unless "there is a reasonable likelihood that the petitioner would prevail with respect to at least 1 of the claims challenged in the petition." As discussed below, we determine that Petitioner does not show a reasonable likelihood of prevailing with respect to any of the challenged claims. Accordingly, we deny institution of an *inter partes* review.

II. BACKGROUND

A. Related Matters

The parties identify the following as a related matter: *LiTL LLC v. Lenovo (United States), Inc. and Lenovo (Beijing) Limited*, 1:20-cv-00689-RGA (D. Del.). Pet. 2; Paper 4, 1. Patent Owner also identifies the following as related matters: IPR2021-00681 (challenging U.S. Patent No. 8,289,688, which belongs to the patent family of the '715 patent); IPR2021-00800

(challenging U.S. Patent No. 10,289,154, which belongs to the patent family of the '715 patent); IPR2021-00821 (challenging U.S. Patent No. 8,612,888, which belongs to the patent family of the '715 patent); and IPR2021-00822 (challenging U.S. Patent No. 8,624,844, which belongs to the patent family of the '715 patent). Paper 4, 2.

B. The '715 Patent (Ex. 1001)

The '715 patent is titled "System and Method for Streamlining User Interaction with Electronic Content." Ex. 1001, code (54). The challenged claims relate to "a graphical user interface that organizes interface elements into views of computer content for presentation to a user" and "an interface that is responsive to configurations of the device and activities performed by the user." *Id.*, code (57). The '715 patent explains that increased computing power enables computers to provide more and more features, but the myriad options may frustrate some users. *Id.* at 1:40–2:14. The '715 patent emphasizes the problem of "the inflexibility of the devices being used and their accompanying interfaces," and a problem generated by "feature packing" whereby "[t]ypical computer users simply can't take advantage of all the functionality offered. . . . [as t]he complexity of the interface (both hardware and software) hampers adoption [of, e.g., services and features offered by their own computer or by online providers], as does the volume of features offered." *Id.* at 2:18–33; *see id.* at 15:19–30.

The solution the '715 patent proposes is a graphical user interface that improves the user's experience and the user's ability to interact with electronic content, by implementing different views. *Id.* at 2:45–58. For example, the '715 patent explains different views present different

organizations of interface elements based upon device configuration and user activity:

> [A]spects and embodiments are directed to a graphical user interface that organizes interface elements into modes of content for presentation to a user. Different views of the modes of content are used to present the user with an interface that is responsive to configurations of the device and responsive to activity being performed by the user. Further the elements that comprise the graphical user interface are configured to present a summarized view of available actions and content, in order to simplify user interaction. The different views present different organizations of the interface elements and in some example display only certain ones of the modes of content in order to reduce the number of options a user must navigate to accomplish an objective.

Id. at 2:35–58.

The '715 patent further explains that its user interface comprises a plurality of views of representations of computer content and explains the views as follows:

> The user interface comprises a map based graphical user interface displayed on the computer system, the map based user interface comprising 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, and the plurality of visual representations of computer content rendered on the computer display, wherein the plurality of visual representations of computer content include an association to a first view of the plurality of views, the first view including the computer content, and wherein the each of the plurality of visual representations is responsive to focus and execution, wherein execution includes clicking on the visual representation, and an execution component comprising at least one computer hardware element configured to transition the computer system display between the plurality of views, wherein the execution component further comprises a view selector component configured to select

> one of the plurality of views for display on a computer system in response to a computer system configuration.

Id. at 2:63–3:25.

The computer system of the '715 patent also describes different profiles to customize the graphical user interface in different modes, including: a closed mode (in which the display screen is disposed substantially against the base of the computer); a laptop mode (in which the portable computer has a conventional laptop appearance, achieved by, e.g., rotating the display about the longitudinal axis up to approximately 180 degrees from the closed mode); an easel mode (in which the base of the computer and its display component stand upright forming an inverted "V," and the keyboard is concealed and not easily accessible); a flat mode (in which the computer's base component and display component lay flat on a surface); and a frame mode (in which the keyboard is concealed and not easily accessible, and software and/or hardware protection may be provided for the keyboard to prevent keys from being pressed, or to prevent the computer from responding to pressed keys). *Id.* at 6:39–42, 6:49–56, 11:40–42, 24:37–63, 25:40–50.

Figure 17 of the '715 patent, reproduced below, illustrates a portable computer in laptop mode, in which the keyboard is oriented to be accessible to the user. *Id.* at 13:29–32, 21:1–3. Figure 4 of the '715 patent, reproduced below, illustrates the portable computer in easel mode, in which the keyboard is concealed and not easily accessible. *Id.* at 12:57–58, 24:61–62, 26:60–65. And Figure 26 of the '715 patent, reproduced below, illustrates the portable computer configured into frame mode, in which the keyboard is concealed and not easily accessible. *Id.* at 13:55–58, 24:61–62.

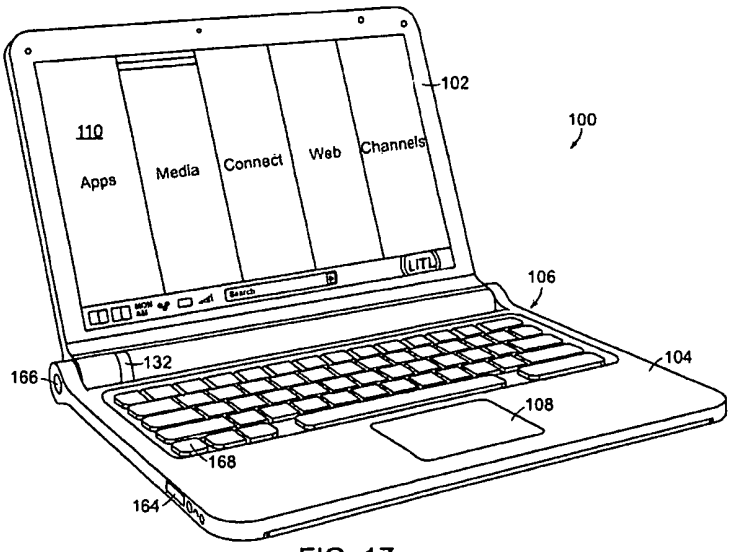


FIG. 17

Figure 17 illustrates a portable computer in laptop mode. *Id.* at 13:29–32.

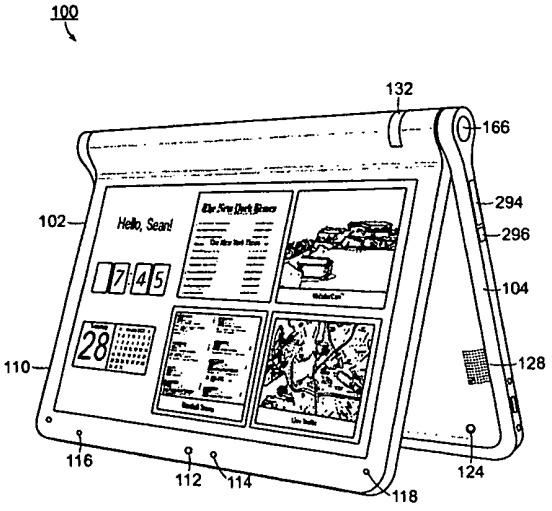


FIG. 4

Figure 4 illustrates a portable computer in easel mode. *Id.* at 12:57–58.

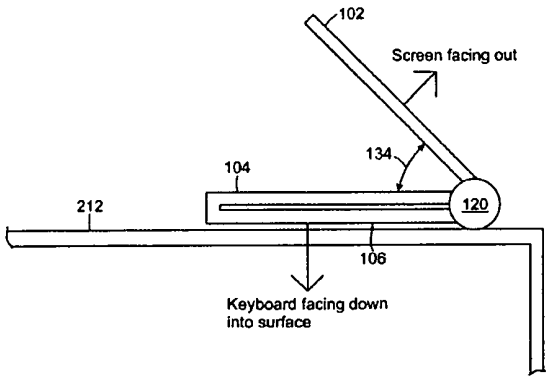


FIG. 26

Figure 26 illustrates a portable computer in frame mode. *Id.* at 13:55–58.

The '715 patent's computer assigns different views to the different modes (e.g., the laptop mode, the easel mode, the flat mode, and the frame mode) based on the mode's configuration. *Id.* at 2:45–3:16, 31:18–26. For example, the computer may display a "home view" in laptop mode, and may display a "Channel View" in easel mode as Figure 23 of the '715 patent shows. We reproduce Figure 23 below. *Id.* at 31:18–26.

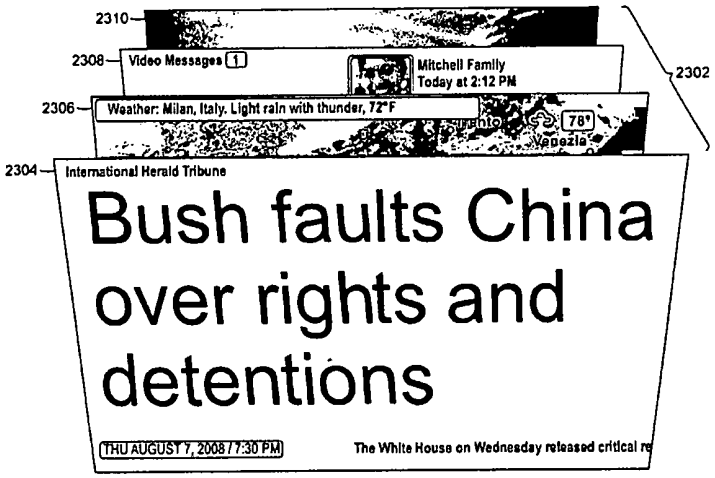


FIG. 23

Figure 23 is a screen shot of a graphical user interface of the portable computer set in easel mode, displaying a channel view that may also display a plurality of modes of content. *Id.* at 13:47–49, 31:20–26.

As Figure 23 shows, the channel view includes selector display (2302) and visual representations of content or channel cards (2304–2310) available for selection. *Id.* at 31:18–26, 53:63–54:1. The visualization the channel view provides resembles and behaves like a rolodex. *Id.* at 54:7–10. In one example, a user invokes the channel view by operating/moving a physical scroll wheel (e.g., scroll wheel 132 illustrated in Figure 4, reproduced above). *Id.* at 53:60–64. As the user moves the scroll wheel, individual channels 2304–2310 appear to flip around the hinge of the device. *Id.* at 54:10–19. In response to a selection, the foremost channel card displayed is selected and displayed full screen. *Id.*

As further examples, the '715 patent explains that the computer may display a "channel page view" (illustrated in Figure 20A, reproduced below), and a "channel full view" (illustrated in Figure 21, reproduced below).

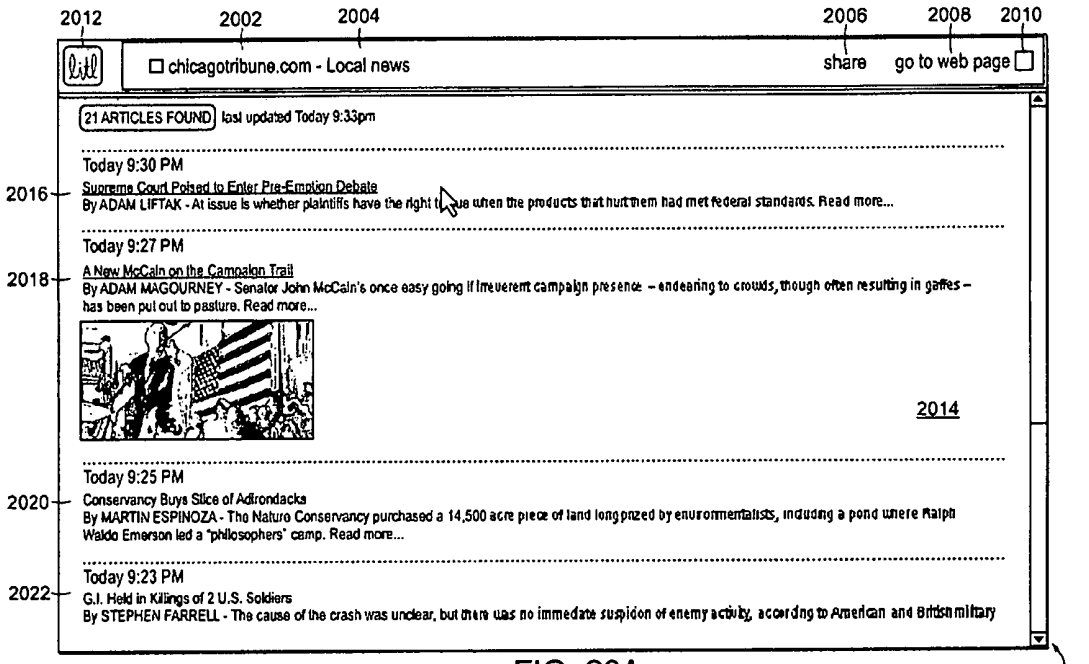


FIG. 20A

Figure 20A is a screen shot illustrating a graphical user interface showing a channel page view, which presents a unique view into content made available through a website, and provides a consistent framework for user interaction with rss style content. *Id.* at 13:38–40, 51:28–50.

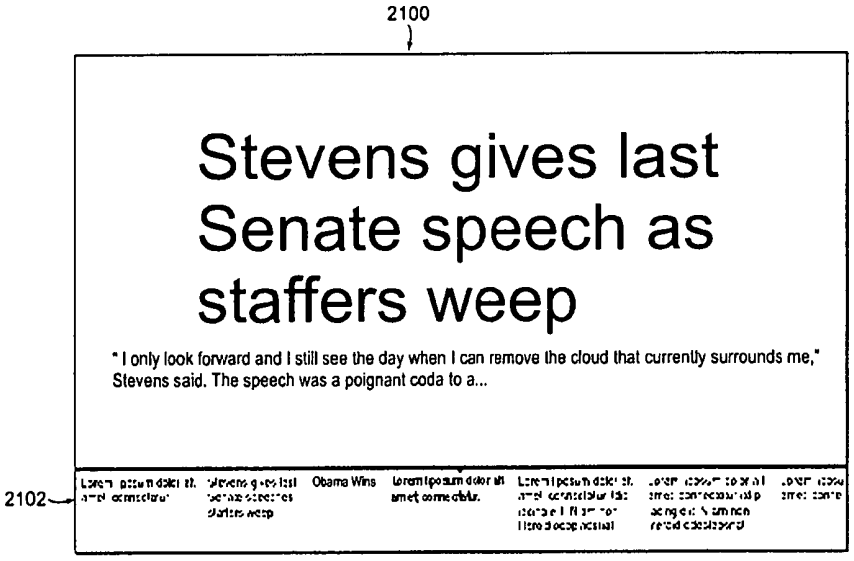


FIG. 21

Figure 21 is a screen shot illustrating a graphical user interface showing a channel full view, which includes displays configured to identify a source of an rss feed, and, in response to a user selection, displays a content menu permitting selection of any of the rss items.
Id. at 13:41–43, 52:33–52.

C. Challenged Claims

Among challenged claims 1–20, claims 1, 17, and 20 are independent. Claims 2–16 and 19 depend from claim 1, and claim 18 depends from claim 17. Claim 1 is exemplary of the claimed subject matter of the '715 patent and is reproduced as follows, with added bracketed identifiers to claim elements.

> 1. [1pre] A customized user interface to display computer content on a display component of a computer system including a keyboard, the user interface comprising:
>
> > [1a] at least one processor operatively connected to a memory of the computer system;
> >
> > [1b] 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:
> >
> > > [1c] 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;
> >
> > [1d] an execution component, executing on the at least one processor, configured to:
> >
> > > [1e] 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;
>
> [1f] 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.

Ex. 1001, 70:63–71:24; *see also* Ex. 1009 and Pet. 51–59 (annotating claim 1 with the same identifiers).

D. Asserted Grounds of Unpatentability

Petitioner asserts that the challenged claims are unpatentable based on the following grounds:

Ground	Claim(s) Challenged	35 U.S.C. §	Reference(s)/Basis
1	1, 20	103	Shimura,[1] Tsuji[2]
2	2–19	103	Shimura, Tsuji, Pogue[3]

Pet. 3. Petitioner supports the asserted grounds with the Declaration of Jean Renard Ward. Ex. 1007; *see also* Ex. 1008 (curriculum vitae of Jean Renard Ward).

III. ANALYSIS

We organize our analysis into three main sections: (A) level of ordinary skill in the art; (B) claim construction; (C) the adequacy of Petitioner's ground one showings for purposes of trial institution; and (D) the adequacy of Petitioner's ground two for purposes of trial institution.

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[1] JP1994-242853 (H6-242853), published September 2, 1994 (Ex. 1003). We refer to the Certified English translation (Ex. 1004).
[2] US 2005/0062715 A1, published Mar. 24, 2005 (Ex. 1005).
[3] Windows XP Home Edition: The Missing Manual (2d ed.) (David Pogue, Pogue Press, LLC & O'Reilly Media, Inc. 2004) (Ex. 1006).

A. Level of Ordinary Skill in the Art

With regard to the level of ordinary skill in the art, Petitioner contends that a person of ordinary skill would have had:

> at least a Bachelor's degree in Electrical Engineering, Computer Engineering, or Computer Science, plus two to three years of work experience in designing hardware and/or software aspects of user interfaces for computing devices and be familiar with designs of the user interface employed and displayed by the operating system and its organization of content and functionality. . . . Alternatively, the POSITA would also have received a graduate degree such as Master's or PhD degree in the same field with at least one year of the same work experience.

Pet. 14 (citing Ex. 1007 ¶¶ 24–28).

Patent Owner does not dispute Petitioner's asserted level of ordinary skill in the art. *See generally* Prelim. Resp.

We find, based on the current record, that Petitioner's contention is reasonable. For purposes of this decision, we adopt the level of ordinary skill in the art Petitioner proposes.

B. Claim Construction

Petitioner proposes constructions for several claim terms, including: "execution component" (asserting "'execution component' is a means-plus-function limitation under 35 U.S.C. §112, ¶6"); and "content mode" (asserting that for "'content mode(s),' 'single content mode,' and 'two content modes' each is construed as 'user selectable element(s) displayed on a user interface that, when selected, allows the user to access the content organized therein'"). Pet. 15–29.

Patent Owner does not dispute Petitioner's proposed construction for "content mode" because "the Petition fails even if that construction is adopted." Prelim. Resp. 15. Patent Owner disputes Petitioner's proposed

means-plus-function constructions for "execution component" because "the Petition misapplies the law for construing an alleged means-plus-function limitation." *Id.*

We determine we need not explicitly construe "execution component" and "content mode" at this stage of the proceeding. *See Nidec Motor Corp. v. Zhongshan Broad Ocean Motor Co. Matal*, 868 F.3d 1013, 1017 (Fed. Cir. 2017) ("we need only construe terms 'that are in controversy, and only to the extent necessary to resolve the controversy'" (quoting *Vivid Techs., Inc. v. Am. Sci. & Eng'g, Inc.*, 200 F.3d 795, 803 (Fed. Cir. 1999))).

We determine, however, that construction is necessary for "plurality of views of a plurality of visual representations of computer content" (as recited in claim 1, and, similarly, in the other challenged claims of the '715 patent). For brevity, we refer to this recitation as the "views recitation." With respect to the views recitation, the '715 patent provides that "different views present different organizations of the interface elements" and "organize modes of content." Ex. 1001, 2:54–56, 3:26–28. For example, the '715 patent describes the different views as presenting different organizations of interface elements as follows:

> Different views of the modes of content are used to present the user with an interface that is responsive to configurations of the device and responsive to activity being performed by the user. Further the elements that comprise the graphical user interface are configured to present a summarized view of available actions and content, in order to simplify user interaction. The different views present different organizations of the interface elements and in some example display only certain ones of the modes of content in order to reduce the number of options a user must navigate to accomplish an objective.
>
> . . .

> The user interface comprises a map based graphical user interface displayed on the computer system, the map based user interface comprising 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, and the plurality of visual representations of computer content rendered on the computer display, wherein the plurality of visual representations of computer content include an association to a first view of the plurality of views, the first view including the computer content, and wherein the each of the plurality of visual representations is responsive to focus and execution, wherein execution includes clicking on the visual representation, and an execution component comprising at least one computer hardware element configured to transition the computer system display between the plurality of views, wherein the execution component further comprises a view selector component configured to select one of the plurality of views for display on a computer system in response to a computer system configuration. . . .
>
> According to one aspect of the present invention, the plurality of views are configured to organize modes of content into different views.

Id. at 2:45–3:28.

The entirety of the '715 patent is consistent with the description above. As we explain in the summary of the '715 patent provided in Section II.B, *supra*, the purpose of the '715 patent is to better organize "more and more features" provided by "feature packing," so that the typical computer user can better take advantage of features offered. *Id.* at 1:40–2:44. The '715 patent explains that "different views [that] present different organizations of the interface elements and in some example[s] display only certain ones of the modes of content in order to reduce the number of options a user must navigate to accomplish an objective." *Id.* at 2:45–58.

As Patent Owner explains, the '715 patent discusses views extensively. *See, e.g.*, Prelim. Resp. 29–33 (providing numerous citations to the '715 patent. In particular, the '715 patent describes many examples of views that each organize content in a different way. *See, e.g.*, *id.* at Figs. 2 (home view), 3A (web page view), 5 (quick access view), 6 (bookmark view), 20A (channel page view), 21 (channel full view), 23 (channel view); *see also id.* at 12:48–15:15 (summarizing the '715 patent's figures). We agree with Patent Owner that, when discussing views, the '715 patent consistently refers to different ways of organizing content. Prelim. Resp. 29–33.

Although not a focus of the '715 patent, the '715 patent also describes how the orientation of displayed content may be changed to ensure it is right-side up. The '715 patent explains that changing the visual display may be rotated when the computer's configuration is changed as follows:

> According to one embodiment, when the portable computer 100 is configured into the easel mode, the visual display on the display screen 110 is automatically rotated 180 degrees such that the information appears "right-way-up," even though the display screen is upside-down compared to when the portable computer is in laptop mode. Thus, a user may simply "flip" the portable computer 100 into the easel mode and immediately be able to comfortably view information on the display screen 110, without having to access display screen controls to adjust the orientation of the visual display.

Ex. 1001, 20:10–24. The '715 patent further explains how the computer may incorporate sensors to allow automatic adjustment of the display's orientation. *Id.* at 20:24–38; *see also id.* at 23:59–24:1 (explaining change in orientation). The '715 patent, however, never refers to merely changing the

visual display's orientation as changing views of a plurality of visual representations of computer content.

Based on the analysis above and the record before us, and for purposes of this Decision, we construe the claim recitation "plurality of views of a plurality of visual representations of computer content" (and similar recitations) as referring to a plurality of ways of organizing visual representations of computer content. The recitation is distinct from merely providing a plurality of ways of displaying content (by, for example, changing display orientation, color, resolution, etc.).

C. Ground One: Obviousness Based on Shimura and Tsuji

All grounds rely on Shimura and Tsuji. We provide an overview of Shimura and Tsuji before we address the parties' contentions.

1. Overview of Shimura (Exs. 1003 and 1004)

Shimura is a Japanese patent application publication (Ex. 1003) for which Petitioner has provided a certified English translation (Ex. 1004). Shimura relates to a personal computer "which can adopt a mode suitable for a user environment centered on a pen input operation and a mouse input operation while retaining a mode which can use a keyboard." Ex. 1004, code [57]. Figure 1 of Shimura, reproduced below, illustrates an example of the personal computer. *Id.*

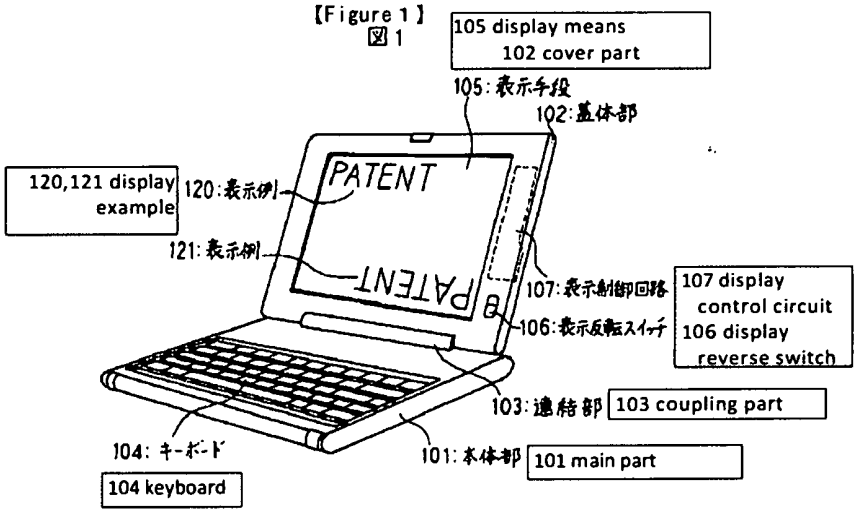
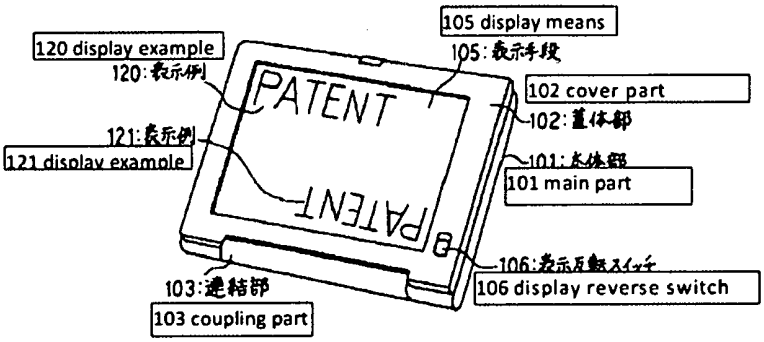


Figure 1 illustrates a personal computer. *Id.*

As shown in Figure 1, the personal computer includes main part 101 provided with keyboard 104 on the front, cover part 102 provided with display 105 on the front, and coupling mechanism 103 used to couple one end of main part 101 and one end of cover part 102 with display 105 such that cover part 102 faces main part 101, and coupling mechanism 103 enables the opening and closing of computer parts 101 and 102. *Id.* Coupling mechanism 103 is structured so that it can also open cover part 102 so that the orientation of cover part 102 exceeds 180° relative to main part 101. *Id.* Figures 4 and 5 of Shimura, reproduced below, show inclined views of the personal computer, with main part 101 rotated nearly 360° with respect to cover part 102 (Figure 4), and main part 101 and cover part 102 opened to an angle of approximately 340° (Figure 5). *Id.* ¶¶ 16–17, Figs. 4 and 5.

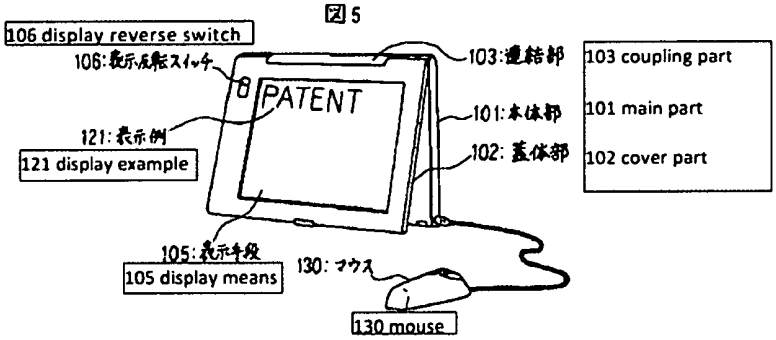
[Figure 4]

図4



[Figure 5]

図5



Figures 4 and 5 show inclined views of the personal computer in which main part 101 has been rotated by more than 180° with respect to cover part 102. *Id.* ¶¶ 6–7, 12, 16–17.

Coupling mechanism 103 enables the rotation of cover part 102 with respect to main part 101. *Id.* ¶¶ 12–13. Coupling mechanism 103 is fastened by hinges to main part 101 and cover part 102. *Id.* ¶ 12. A display reverse switch 106 enables display 105 to be switched upside down. *Id.* ¶¶ 12, 17. A user may place display reverse switch 106 in a normal state and a reverse state. *Id.* ¶ 12. For example, a user may set display reverse switch 106 to a normal mode so that the display orientation of display 105 has orientation 120 (as shown in Figure 1). *Id.* ¶ 12. A user may also set display reverse switch 106 to a reverse mode so that a display orientation of display 105 has

orientation 121 (e.g., upside down, as shown in Figure 5). *Id.* ¶¶ 12, 17. Display control circuit 107 of the personal computer controls the output to display 105 by controlling a computer circuit stored in main part 101. *Id.* ¶ 12. Display control circuit 107 turns the display upside down (to orientation 121) based on the state of display reverse switch 106. *Id.*

2. Overview of Tsuji (Ex. 1005)

Tsuji is a US patent application publication that relates to a portable computer including: a housing with a top surface; a keyboard placed on the top surface of the housing; a display unit with a front surface and a rear surface, supported by the housing and "rotated between a closed position in which the keyboard is covered and an open position in which the keyboard is exposed"; a sensor which senses an angle formed between the front surface of the display unit and the top surface of the housing; and a display device in the display unit to display a screen image in one of "a first orientation in which a bottom-end portion of the screen image is located toward the housing and a second orientation in which a top-end portion of the screen image is located toward the housing in accordance with the angle sensed by the sensor." Ex. 1005 ¶¶ 3, 10. Tsuji's Figures 1, 2, and 5, reproduced below, illustrate the portable computer with its display in various positions. *Id.* ¶¶ 13–15.

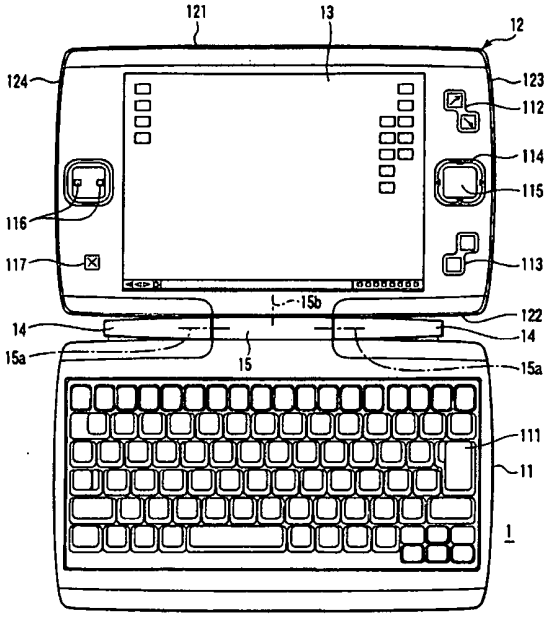


FIG. 1

Figure 1 illustrates a portable computer including display unit 12 that can rotate around first central axis 15a that extends in parallel to the outer surface of computer main body 11, and can also rotate around second central axis 15b perpendicular to first central axis 15a. *Id.* ¶¶ 13, 31–33.

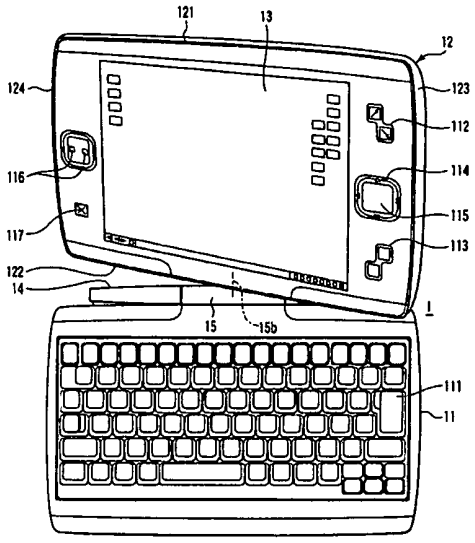


FIG. 2

Figure 2 illustrates the portable computer with display unit 12 rotated around second central axis 15b, display unit 12 rotatable 360° around second central axis 15b in the horizontal direction with respect to the outer surface of computer main body 11. *Id.* ¶¶ 14, 33.

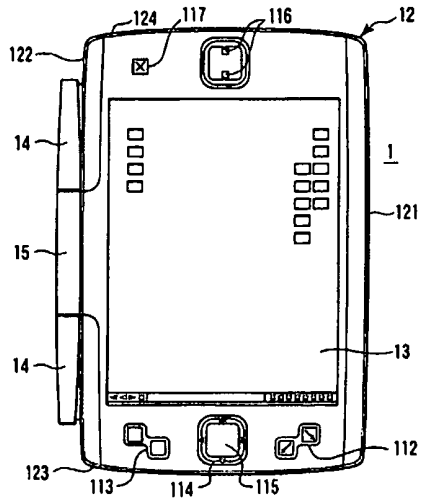


FIG. 5

Figure 5 illustrates the portable computer with display unit 12 set to a PDA style by rotating the display unit 180° around second central axis 15b in a horizontal direction so that the display unit is accessible in a second open position. *Id.* ¶¶ 17, 33–34.

Figure 14 of Tsuji, reproduced below, illustrates a control operation for an automatic image rotating function performed by the portable computer shown in Figure 1. *Id.* ¶ 26.

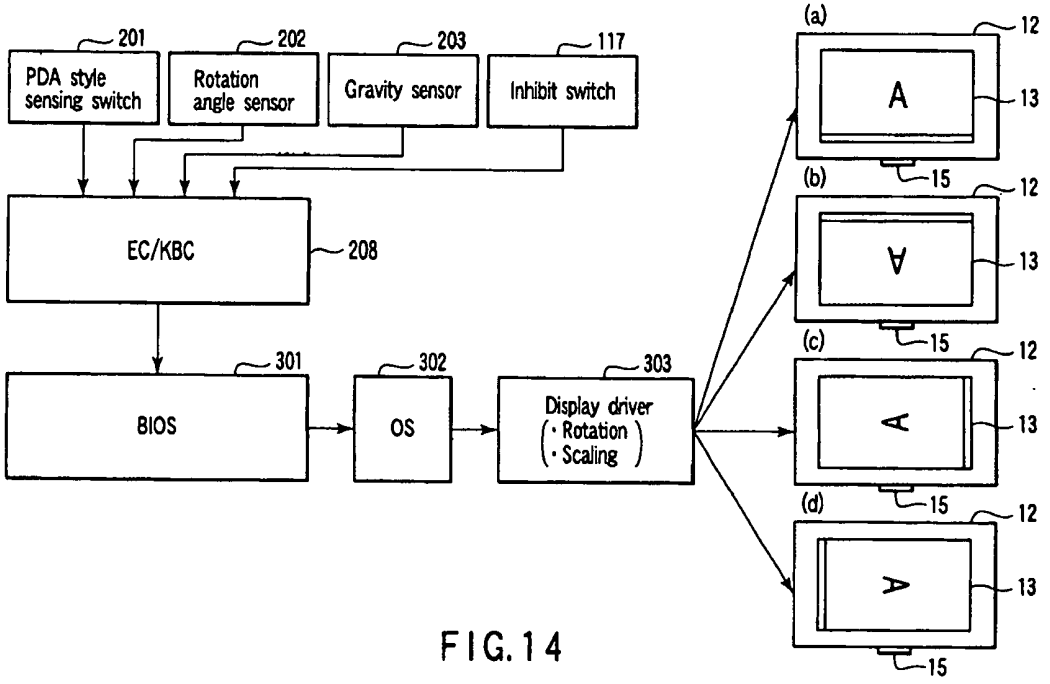


FIG. 14

Figure 14 illustrates a control operation for an automatic image rotating function performed by the portable computer shown in Figure 1. *Id.* ¶ 26.

A BIOS (Basic Input Output System) program 301 shown in Figure 14 acquires values from a sensing switch, a rotation angle sensor, and a gravity sensor to determine whether the portable computer is used in a PC style (as shown in Figure 1, reproduced above) or in a PDA style (as shown in Figure 5). *Id.* ¶¶ 34, 64, 69–71. When the computer is used in PC style, BIOS 301 performs control to change the orientation of a screen image in response to a signal from rotation angle sensor 202. *Id.* ¶ 70. When the computer is used in PDA style, BIOS 301 performs control to change the orientation of a screen image in response to a signal from gravity sensor 203. *Id.* BIOS 301 then informs display driver 303 of the orientation of the screen image to be displayed on the computer's LCD and the aspect ratio of the screen image, and display driver 303 performs an operation for rotating the

screen image displayed on the computer's LCD and a scaling operation for varying the aspect ratio in response to an instruction from BIOS 301. *Id.* Display driver 303 then sets the orientation of the screen image displayed on the LCD in one of four orientations (a), (b), (c) and (d). *Id.* ¶ 71.

3. Discussion

Based on the present record, Petitioner does not demonstrate a reasonable likelihood of showing the combination of Shimura and Tsuji (ground 1) would have rendered obvious the subject matter of challenged claims 1 and 20. Pet. 42–62. Petitioner also does not demonstrate a reasonable likelihood of showing the subject matter of the challenged claims would have been obvious over the combination of references Petitioner applies for ground 2. *Id.* at 62–102.

Claim 1 recites, *inter alia*, a "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" (limitation [1c]), and an "execution component" configured to "select one of the plurality of views for display on the computer system in response to the detected current computer system configuration [as determined by the keyboard being operable or inoperable to receive input from the computer's operator]" and "transition the display component to the selected one of the plurality of views" (limitation [1f]). Ex. 1001, 71:1–24.

Petitioner contends Shimura's display 105 teaches the claimed "graphical user interface." Pet. 53–54 (citing Ex. 1004, Fig. 1; Ex. 1007 ¶¶ 185–189). Petitioner further contends Shimura's graphical user interface

meets the views recitation because Shimura's display 105 "displays content in either a normal or inverted view (i.e., rotated 180°)," where

> [t]he view depends on the state of display reversal switch 106 inputted to display control circuit 107 inside the cover part 102. . . . If the display reverse switch 106 is set to normal view, the display control circuit 107 causes the display screen 105 to display the content in normal view. . . . Similarly, if the display reverse switch 106 is set to reverse mode the content is displayed in an inverted view.
>
> A POSITA would have considered the Shimura-Tsuji Computer's ability to display content in either a normal or inverted view to disclose [1c].

Id. at 54–56 (citing Ex. 1004 ¶ 12, Fig. 1; Ex. 1007 ¶¶ 190–194). With respect to limitation [1f], Petitioner contends that a combined Shimura-Tsuji computer can select a view based on computer system configuration:

> [t]he Shimura-Tsuji Computer can determine the computer system configurations and "select[s] one of the plurality of views [e.g., normal and inverted views] for display on the computer system in response to the detected current computer system configuration" and transitions the display to that view.

Id. at 59 (citing Ex. 1007 ¶¶ 203–206). For the claimed "execution component," Petitioner also relies on Tsuji's BIOS program 301 "that informs a display driver 303 . . . of the orientation of the image to be displayed," and on Tsuji's display driver 303 "which is controlled by the BIOS program 301, [and] performs the operation for rotating the image displayed on the LCD." *Id.* at 59–60 (citing Ex. 1005 ¶¶ 68–74, Fig. 14; Ex. 1007 ¶ 205).

Patent Owner argues that Petitioner has failed to meet its burden for claim 1 because the "Petition fails to properly construe 'plurality of views,' which refers to a plurality of ***ways of organizing*** displayed content." Prelim.

Resp. 24, 44–45. Patent Owner's argument is persuasive for the reasons explained below.

As Patent Owner argues, the Petition relies only on different orientations (such as a "normal view" and an "inverted view") of a single organization of displayed content, to meet claim 1's views recitation. *Id.* at 24–25. For example, Patent Owner points out that the Petition considers Shimura's display of the word "PATENT" right-side-up (normal view) and upside-down (inverted) as meeting the recited "plurality of views." *Id.* at 26–27 (citing Pet. 49–50, 54–55). As we explain above in our claim construction, however, inverting or re-orienting a single way of organizing displayed content does not create a "plurality of views of a plurality of visual representations of computer content" as claimed and described in the '715 patent. As such, Petitioner's implicit "construction of 'plurality of views' as reading on different orientations of the same organization of displayed content is wrong because it is inconsistent with every embodiment of a 'plurality of views' described in the specification." *Id.* at 25, 38–41.

Indeed, Patent Owner correctly explains that the '715 patent addresses reorientation of a display but reorientation does not result in the views recitation. Patent Owner makes this distinction by arguing:

> [in] the claims and the specification of the '715 Patent—a "view" is a ***way of organizing*** displayed content. Ex. 1001, Abstract, 2:54–58 ("[t]he ***different views*** present ***different organizations*** of the interface elements"); 3:26–28 ("the plurality of ***views*** are configured to ***organize modes of content*** into different views"); 7:25–27, 9:55–57 (a "plurality of views" of computer content as recited in claims 1, 17 and 20, is a plurality of ways of organizing displayed content).
> . . . the specification also describes ***re-orientating*** the same display organization about the computer's longitudinal axis to

> ensure it is right-side-up, but uses different terminology to describe that re-orientation and never refers to two different orientations of the same organization of displayed content as different views.
>
> . . .
>
> The specification makes clear "views" are particular ***ways of organizing*** displayed content—***not*** different ***orientations*** of a single organization of displayed content.

Prelim. Resp. 27–28; *see id.* at 29–37, 42–44. We find that Patent Owner's explanation of this distinction is best supported by the text of the '715 patent.

Thus, on the current record, Petitioner has not made a sufficient showing that the combination of Shimura and Tsuji teaches the subject matter of limitations [1c] and [1f] of claim 1.

Independent claim 20 includes recitations similar to the views recitation of claim 1. *See* Ex. 1001, 73:19–74:18; Pet. 60–62. Patent Owner maps claim 20 to the prior art's teachings merely by referring back to claim 1. Pet. 60–62. For the reasons we provide as to claim 1, Petitioner has not made a sufficient showing that the combination of Shimura and Tsuji teaches the subject matter of claim 20.

D. Ground Two: Obviousness Based on Shimura, Tsuji, and Pogue

We provide an overview of Pogue before we address the parties' contentions.

1. Overview of Pogue (Ex. 1006)

Pogue is a book on Windows XP, titled "Windows XP Home Edition: The Missing Manual." Ex. 1006, 2. Pogue explains that "[t]he purpose of this book . . . is to serve as the manual that should have accompanied Windows XP" and to provide "step-by-step instructions for using almost

every Windows feature." *Id.* at 15.[4] Pogue presents various screen images from a computer running Windows XP, including the "Windows XP computer screen" after a fresh install of Windows XP (Figure 2-2) and a Filmstrip view that "turns [a] folder window into a slide show machine, complete with Next and Previous buttons beneath an enlarged picture, as well as buttons that rotate the image on the screen" (Figure 2-5). *Id.* at 36, 87.

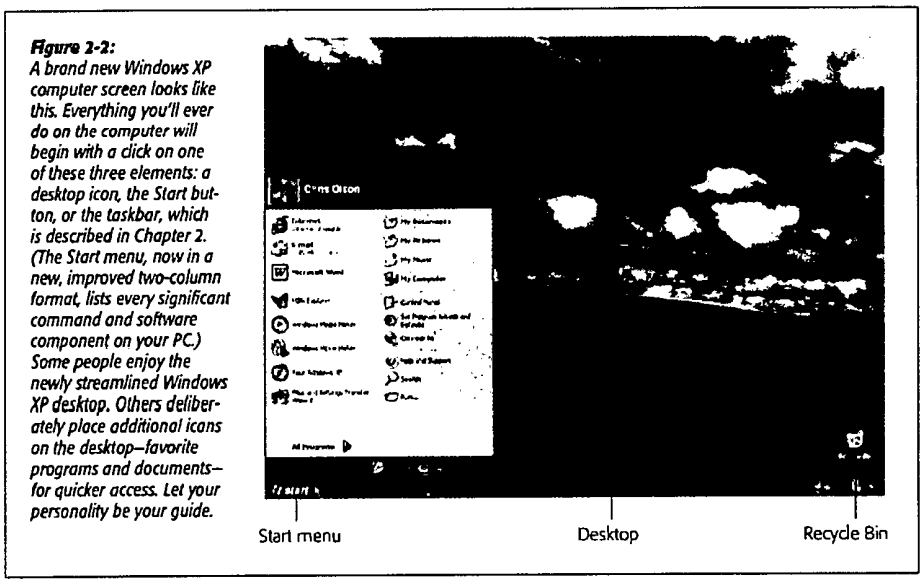


Figure 2-2 shows the Windows XP computer screen displayed after a fresh install of Windows XP. *Id.* at 36.

[4] Page numbers refer to numbered pages of Exhibit 1006 rather than referring to pages of the book.

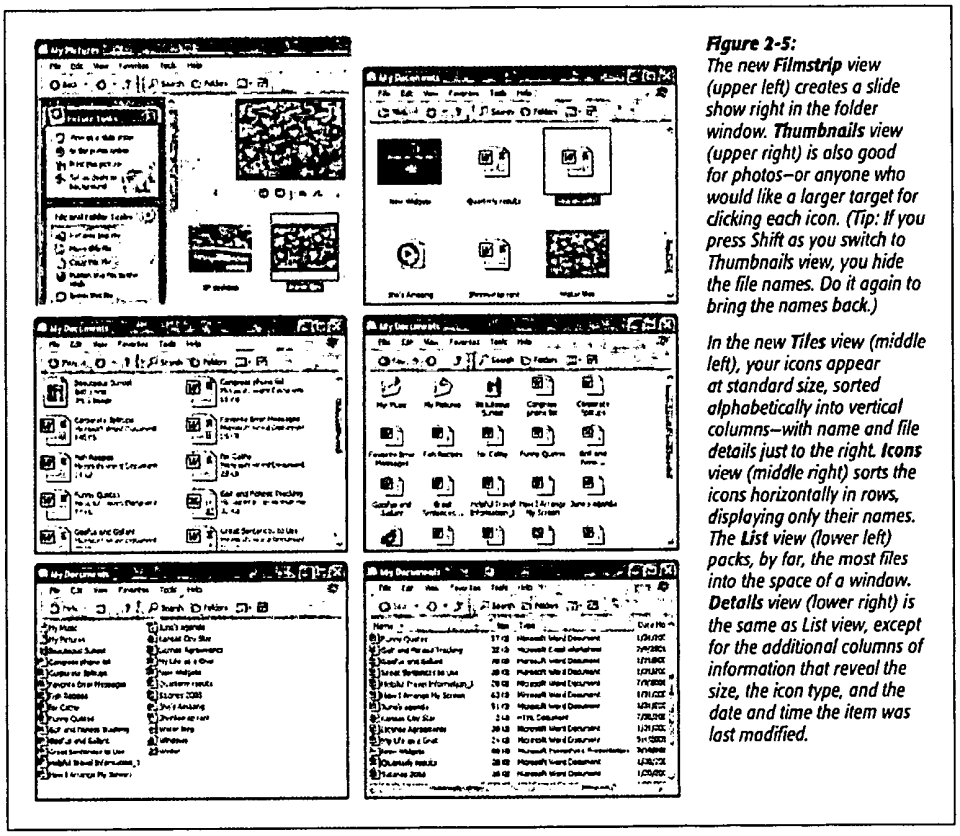


Figure 2-5:
*The new **Filmstrip** view (upper left) creates a slide show right in the folder window. **Thumbnails** view (upper right) is also good for photos—or anyone who would like a larger target for clicking each icon. (Tip: If you press Shift as you switch to Thumbnails view, you hide the file names. Do it again to bring the names back.)*

*In the new **Tiles** view (middle left), your icons appear at standard size, sorted alphabetically into vertical columns—with name and file details just to the right. **Icons** view (middle right) sorts the icons horizontally in rows, displaying only their names. The **List** view (lower left) packs, by far, the most files into the space of a window. **Details** view (lower right) is the same as List view, except for the additional columns of information that reveal the size, the icon type, and the date and time the item was last modified.*

Figure 2-5 shows a Filmstrip view that "turns [a] folder window into a slide show machine, complete with Next and Previous buttons beneath an enlarged picture, as well as buttons that rotate the image on the screen." *Id.* at 87.

2. Discussion

Petitioner's second ground of unpatentability is based on obviousness over Shimura, Tsuji, and Pogue. Pet. 62. Although Petitioner states that Pogue discloses a "home view" and a "channel view," as recited in claim 2, Petitioner does not show that Pogue remedies the deficiencies of Shimura and Tsuji with respect to the claimed selection and display of "a plurality of views of a plurality of visual representations of computer content," as recited in claim 1. *See* Pet. 63–66.

In particular, claims 2–16 and 19 depend from claim 1 and include all the limitations claim 1 requires. Claim 1 requires "an execution component . . . configured to: select one of the plurality of views for display on the computer system in response to the detected current computer system configuration." Ex. 1001, 71:10–20; *see also* Ex. 1009, 1 (mapping this recitation as [1f]). Even if Pogue teaches a plurality of views (within the claim construction we provide above), Petitioner does not rely on Pogue to meet the [1f] recitation. Instead, Petitioner alleges that the Shimura-Tsuji combination selecting between normal and inverted views meets the [1f] recitation. Pet. 59. But, as we explain above, Petitioner's mapping of Shimura-Tsuji to [1f] is insufficient. Thus, for the reasons discussed with respect to claim 1, we determine that Petitioner has not established a reasonable likelihood of prevailing in its contention that the asserted combination of Shimura, Tsuji, and Pogue would have rendered obvious claims 2–16 and 19.

As Patent Owner's arguments with respect to independent claim 17 (arguments similar to those submitted for claims 1 and 20, *see* Prelim. Resp. 24–27, 42–45) further explain, Petitioner also has not shown that the combination of Shimura and Tsuji teaches the limitations directed to the "plurality of views of a plurality of visual representations of the computer content" recited in independent claim 17. *Id.* at 62–64. Petitioner labels the portions of claim 17 requiring a graphical user interface "configured to display a plurality of views of a plurality of visual representations of the computer content" and requiring an execution component configured to "select, responsive to the sensor input, a first content view from the plurality of views" as [17b] and [17e] respectively. Ex. 1009, 4. Petitioner does not

provide any mapping to prior art for these recitations beyond what Petitioner provided for claim 1. Pet. 100–101. Petitioner, therefore, does not show that Pogue remedies the deficiencies of Shimura and Tsuji that we addressed with respect to claim 1. Thus, Patent Owner's arguments persuade us that Petitioner has not made a sufficient showing that the combination of Shimura, Tsuji, and Pogue teaches the subject matter of claim 17.

Claim 18 depends from claim 17 and includes all the limitations claim 17 requires. For the reasons discussed with respect to claim 17, we determine that Petitioner has not established a reasonable likelihood of prevailing in its contention that claim 18 would have been rendered obvious by the asserted combination of Shimura, Tsuji, and Pogue.

Therefore, Petitioner does not establish a reasonable likelihood of prevailing in demonstrating the unpatentability of any challenged claim of the '715 patent in its second ground of unpatentability for the same reasons as Petitioner's first ground of patentability.

IV. CONCLUSION

For the reasons above, we determine that Petitioner has not established a reasonable likelihood that it would prevail in showing that at least one of the challenged claims is unpatentable.

V. ORDER

In consideration of the foregoing, it is hereby:

ORDERED that the Petition is denied, and we do not institute an *inter partes* review of any claim of the '715 patent based on a ground asserted in the Petition.

PETITIONER:

Martin Bader
Nam Kim
Michael Hopkins
SHEPPARD, MULLIN, RICHTER & HAMPTON LLP
mbader@sheppardmullin.com
nkim@sheppardmullin.com
mhopkins@sheppardmullin.com

PATENT OWNER:

Gerald B. Hrycyszyn
Richard F. Giunta
Jason Balich
WOLF GREENFIELD & SACKS, P.C.
ghrycyszyn-ptab@wolfgreenfield.com
rgiunta-ptab@wolfgreenfield.com
jbalich-ptab@wolfgreenfield.com

AO 120 (Rev. 08/10)

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

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

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

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
	2/1/2023	for the District of Delaware

PLAINTIFF	DEFENDANT
LiTL LLC	ASUSTeK Computer Inc., ASUS Global Pte. Ltd., and ASUS Technology Pte. Limited

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	8,289,688	10/16/2012	LiTL LLC
2	8,624,844	1/7/2014	LiTL LLC
3	9,563,229	2/7/2017	LiTL LLC
4	10,289,154	5/14/2019	LiTL LLC
5	9,003,315	4/7/2015	LiTL LLC

See attached Addendum

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

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

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

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

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

Addendum to Patent/Trademark Report – (LiTL LLC v. ASUSTeK Computer Inc., et al.)

List of Additional Patents

Patent Number	Date of Patent	Holder of Patent
9,880,715	01/30/2018	LiTL LLC
10,564,818	2/18/2020	LiTL LLC
8,612,888	12/17/2013	LiTL LLC