

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

**U.S. PATENT DOCUMENTS**

Examiner's Initials #	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
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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	

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Sheet	2	of	2		

**OTHER ART – NON PATENT LITERATURE DOCUMENTS**

Examiner's Initials #	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
		International Preliminary Report on Patentability mailed October 14, 2010 for International Application No. PCT/US2009/039117 (L2039.70004WO00).	
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(12) **UK Patent Application** (19) **GB** (11) **2 321 982** (13) **A**

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(51) INT CL<sup>6</sup>  
G06F 1/16

(52) UK CL (Edition P)  
G4A ADT

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

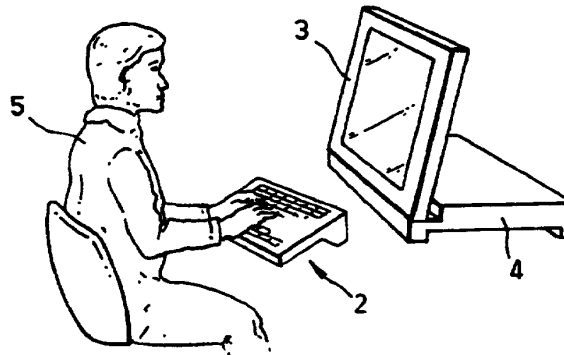
(58) Field of Search  
UK CL (Edition O) G4A ADT  
INT CL<sup>6</sup> G06F 1/16  
On-line: WPI

(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.

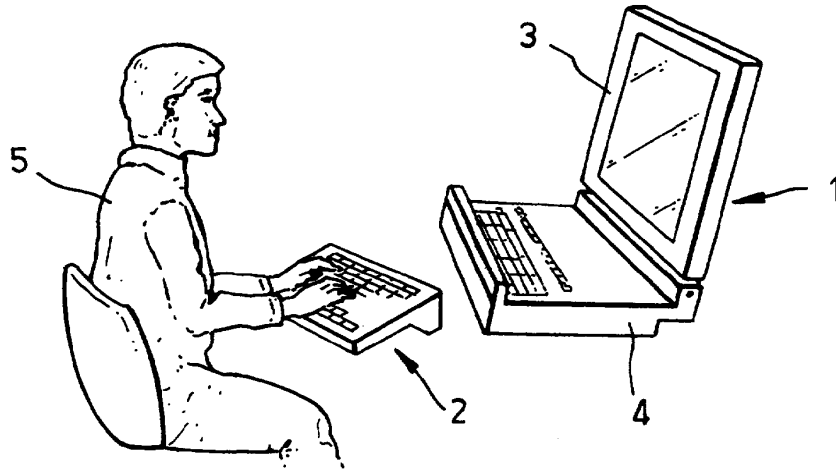


Fig.2.

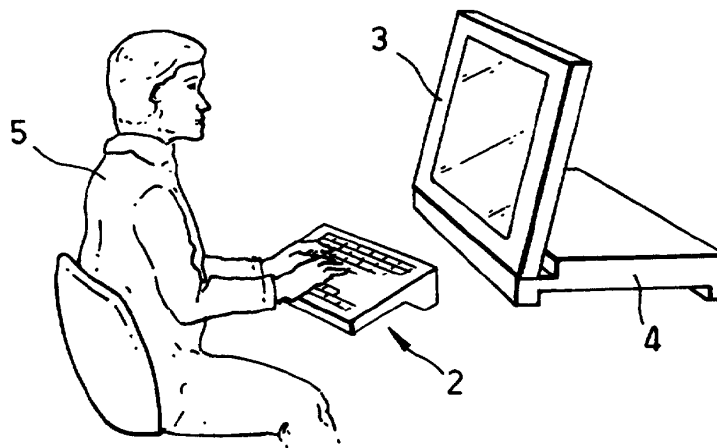




Fig.3.

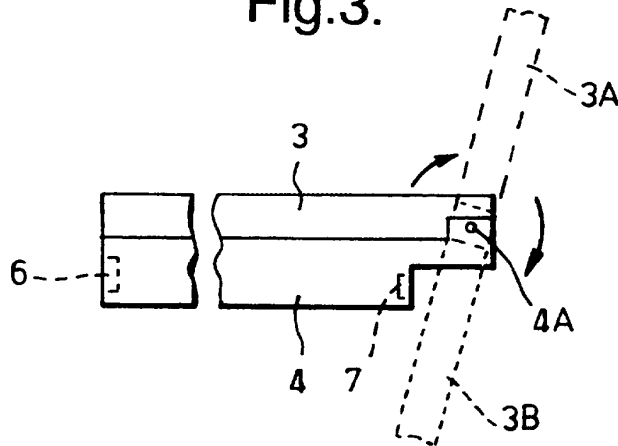


Fig.4.

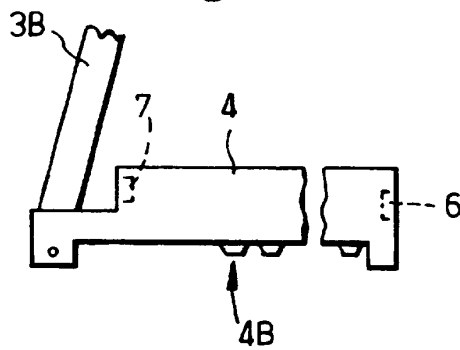


Fig.4A.

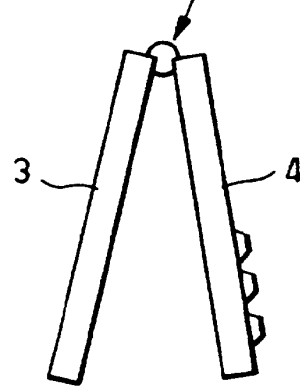
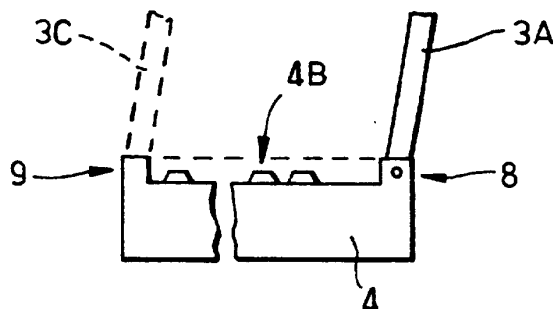


Fig.5.



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  $90^\circ$  relative to the first position, and a third position in which the screen has been rotated through an angle of the order of  $270^\circ$  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  $90^\circ$  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 in 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  $270^\circ$ , 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  $270^\circ$  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  $90^\circ$  viewing position of the screen in a dashed line 3A, and the order of  $270^\circ$  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  $270^\circ$  orientation the body 4 must be disposed with the integral keyboard 4B downwards, as indicated in Figure 4.

In the order of  $270^\circ$  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  $270^\circ$  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  $270^\circ$  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  $270^\circ$  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  $270^\circ$  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  $90^\circ$  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  $270^\circ$ ).

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  $90^\circ$  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  $270^\circ$  orientation referred to above, but which is actually an order of  $90^\circ$  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  $90^\circ$  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  $90^\circ$  relative to the first position, and a third position in which the screen has been rotated through an angle of the order of  $270^\circ$  relative to the first position.
8. A notebook computer comprising a body portion with a screen portion operatively connected thereto, wherein the screen 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 has been rotated through an angle of the order of  $90^\circ$  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.



Application No: GB 9702544.9  
Claims searched: All

Examiner: Matthew Gillard  
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

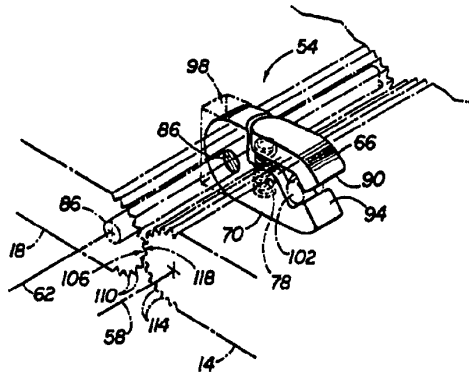
X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification <sup>6</sup> : <b>G06F 1/16, H05K 7/12</b></p>	<p><b>A1</b></p>	<p>(11) International Publication Number: <b>WO 95/24007</b> (43) International Publication Date: 8 September 1995 (08.09.95)</p>
<p>(21) International Application Number: PCT/US95/02468 (22) International Filing Date: 28 February 1995 (28.02.95) (30) Priority Data: 08/204,540                      2 March 1994 (02.03.94)                      US (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 &amp; Cody, Suite 2800, 1100 Peachtree Street, Atlanta, GA 30309-4530 (US).</p>	<p>(81) Designated States: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MW, MX, NO, NZ, PL, RO, RU, SI, SK, TJ, TT, UA, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD, SZ, UG).</p> <p><b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>	

(54) Title: MODULAR, RECONFIGURABLE DEVICES



(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  
5 computers and other electronic or similar apparatus.

## BACKGROUND OF THE INVENTION

Technological advances in the computing, electronics, and telecommunications industries have  
10 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,  
15 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  
20 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.  
25 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  
30 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  
35 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  
5 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  
10 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  
15 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  
20 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°.

25 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  
30 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  
35 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.

5       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  
10 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.

15       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  
20 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  
25 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.

30                   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.

35       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.

5        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.

10       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.

15       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.

25       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.

30       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.

35       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 cursor 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.

5 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.

20 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.

30 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  $180^\circ$  relative to first module 14 to expose visual display 35. In FIG. 8, the rotation of second module 18 exceeds  $270^\circ$ , useful particularly when only visual display 35 need be accessible. FIG. 9, finally, shows second module 18 rotated approximately  $360^\circ$  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.

5        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 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  
15 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  
20 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.  
25 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  
30 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  
35 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  
5 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.

10 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,  
15 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,  
20 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  
25 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  
30 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  
35 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  
5 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  
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  
15 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.  
20 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.



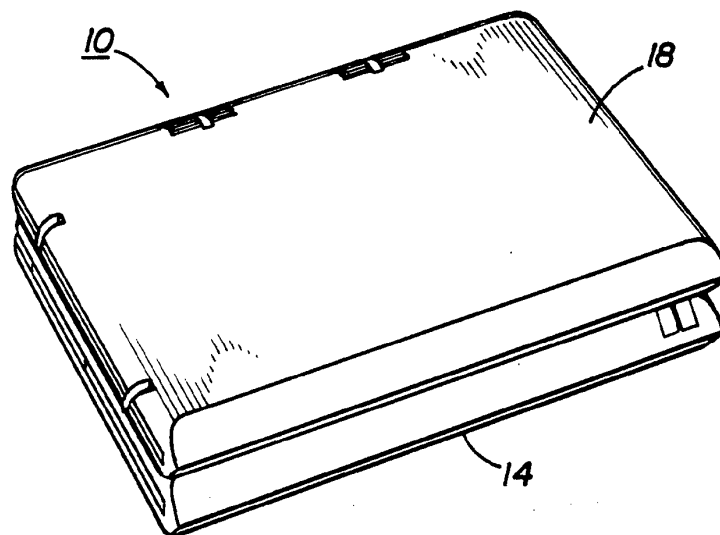
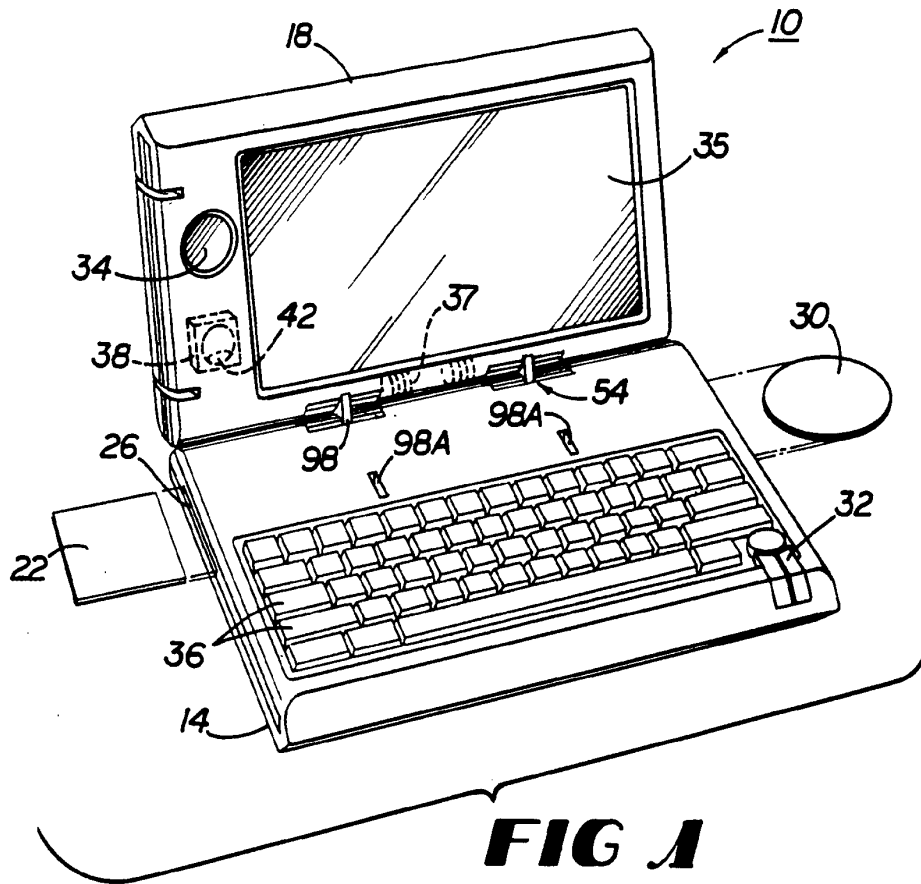
6. A system according to claim 1 in which the first electronic module defines a secondary axis of rotation.
7. A system according to claim 6 in which the connecting means intersects the secondary axis of rotation.
8. A system according to claim 1 in which:
  - a. the first electronic module comprises 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.

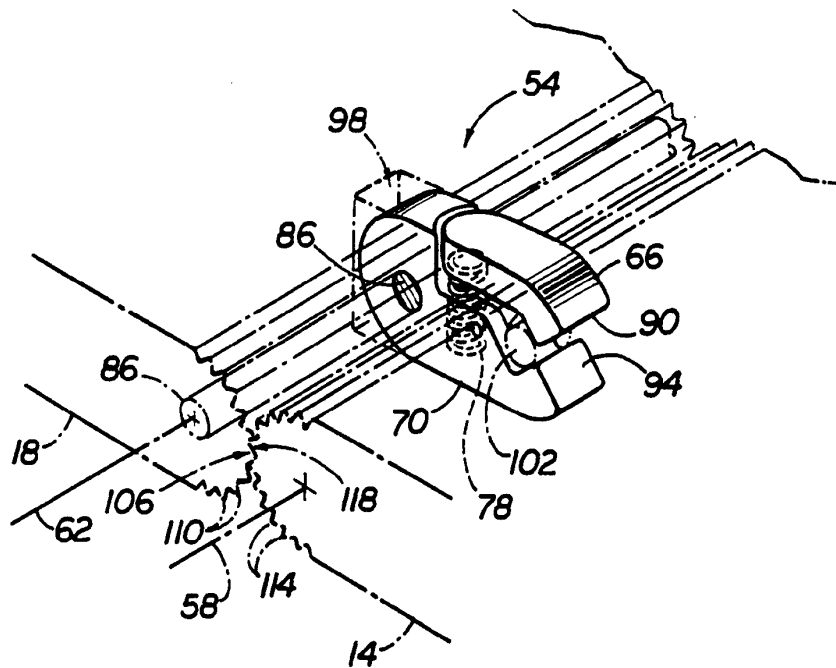
14. A system according to claim 1 further comprising means for selectively hindering the first electronic module from rotating about the first axis of rotation and in which the connecting means:
  - a. intersects the first and second axes of rotation; and
  - b. comprises means for detachably connecting 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,

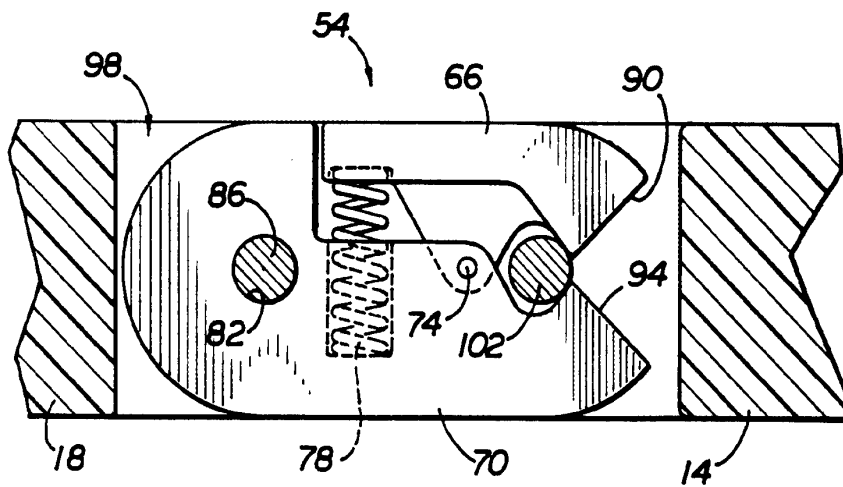
- which curved surface includes a plurality of first teeth;
- b. a second module defining:
    - i. a second primary axis of rotation parallel to the first primary axis of rotation; and
    - ii. a curved surface radial to the second primary axis of rotation, which curved surface includes a plurality 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.



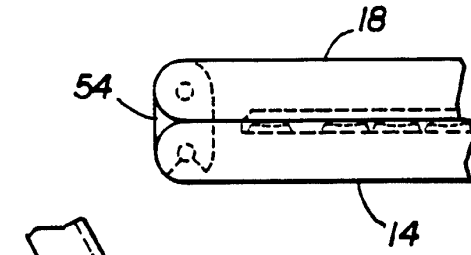
1/9  
SUBSTITUTE SHEET (RULE 26)



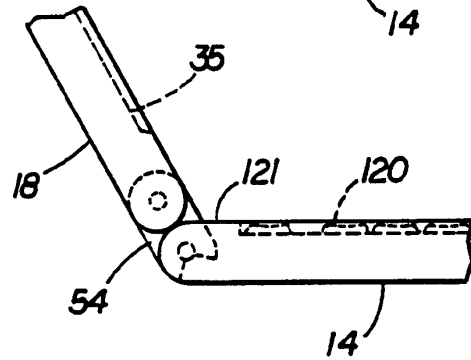
**FIG 3**



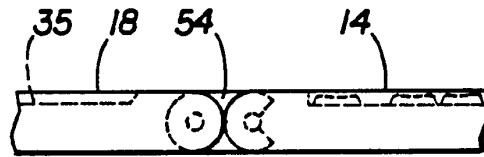
**FIG 4**



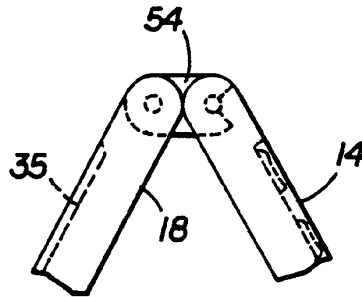
**FIG 5**



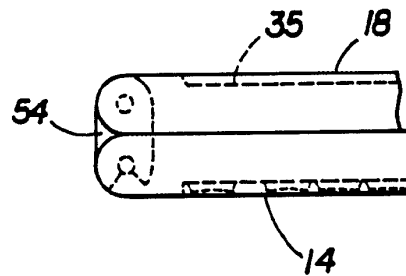
**FIG 6**



**FIG 7**



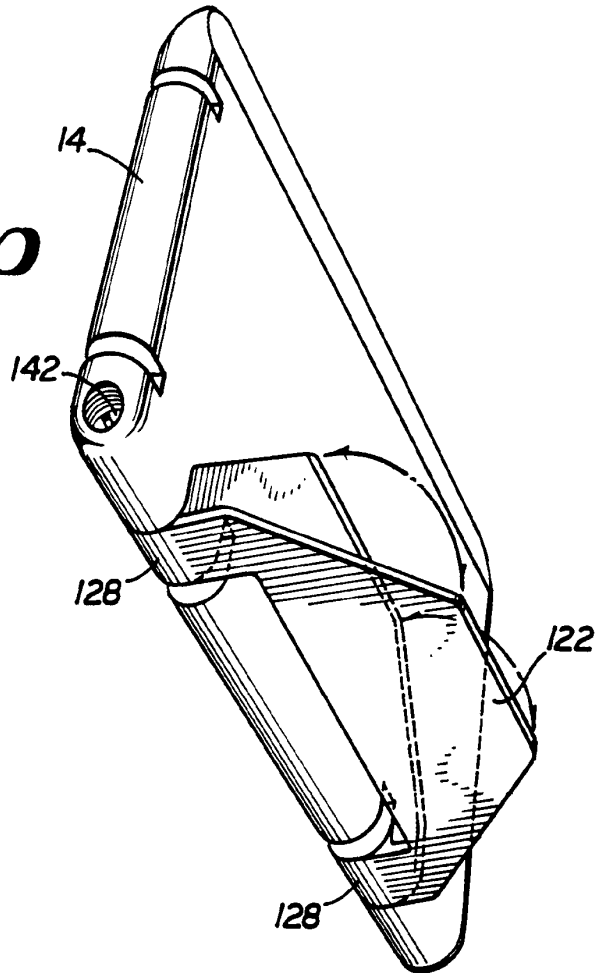
**FIG 8**



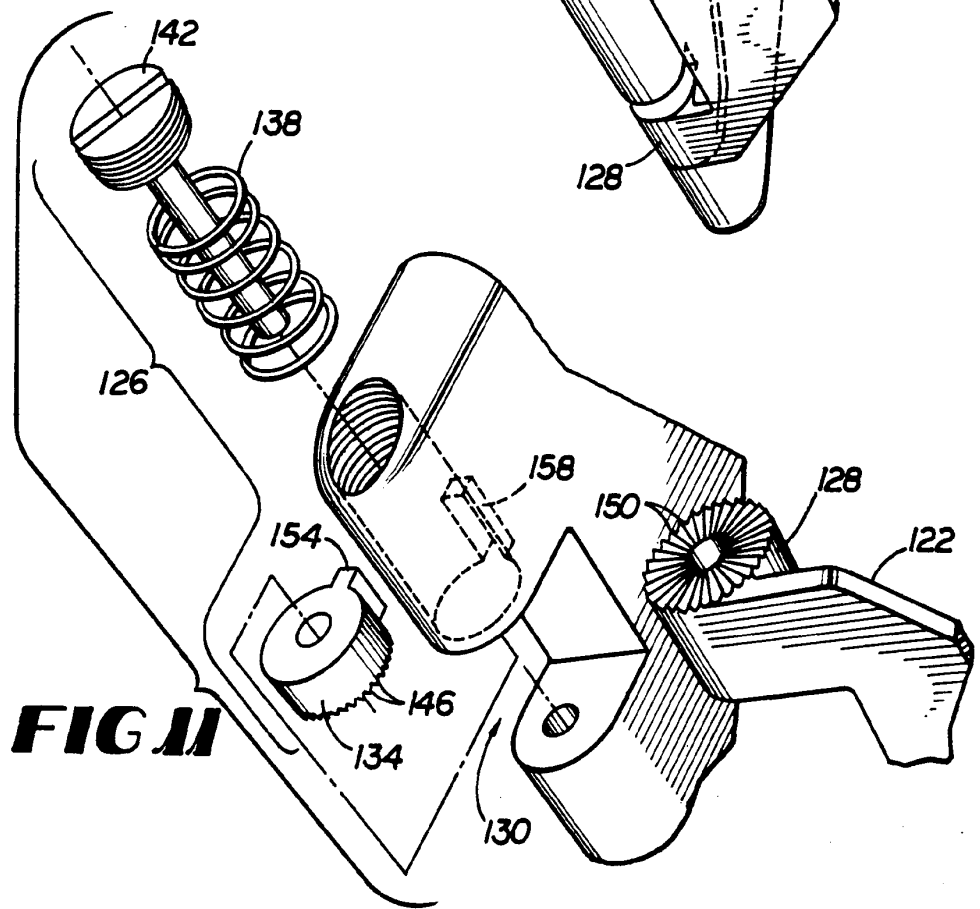
**FIG 9**

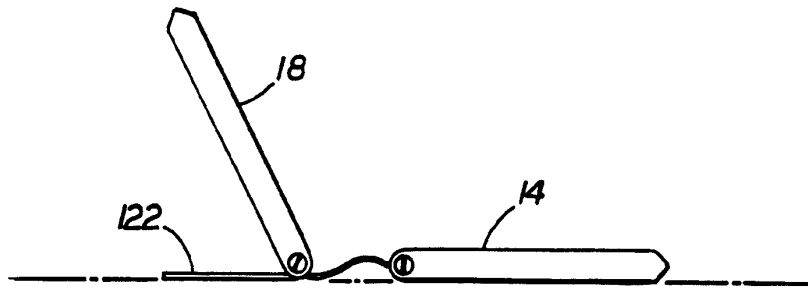


**FIG 10**

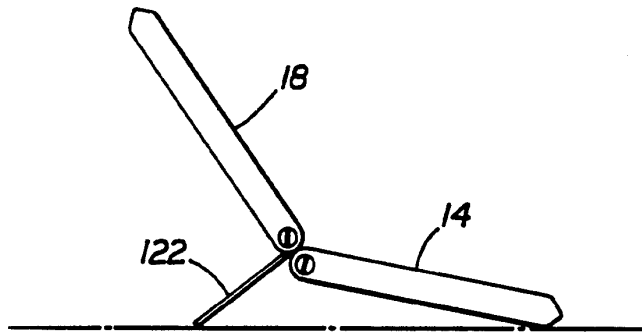


**FIG 11**

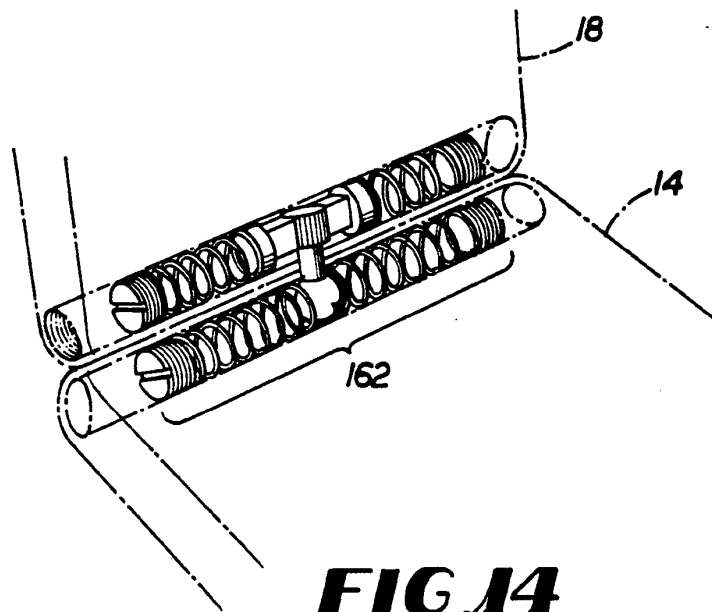




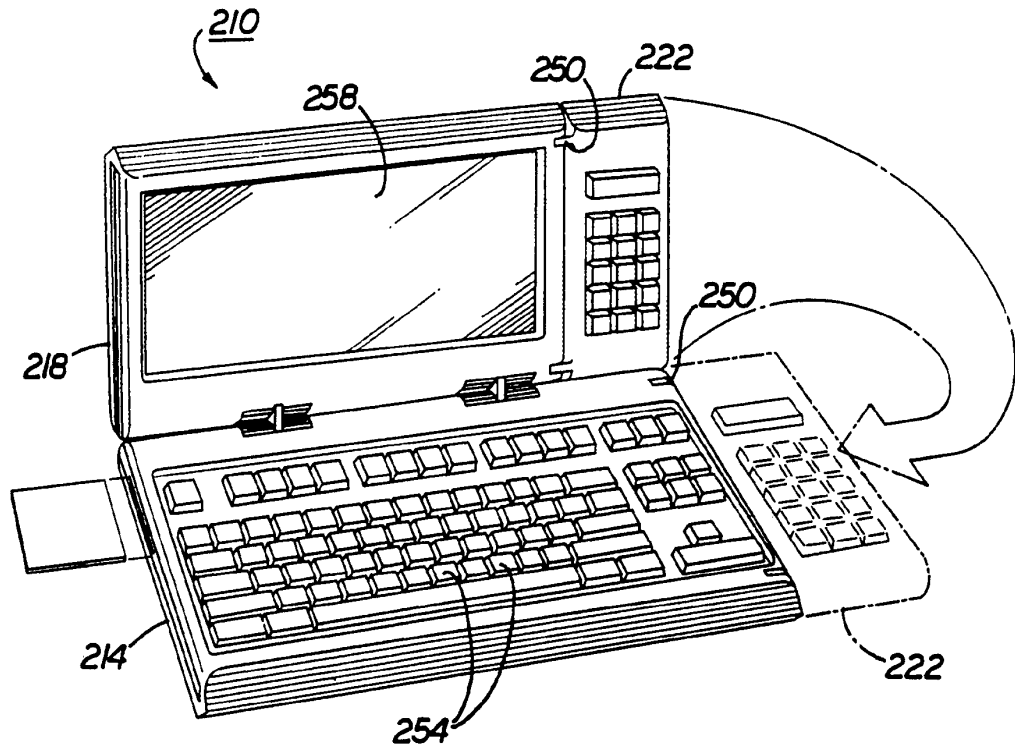
**FIG 12**



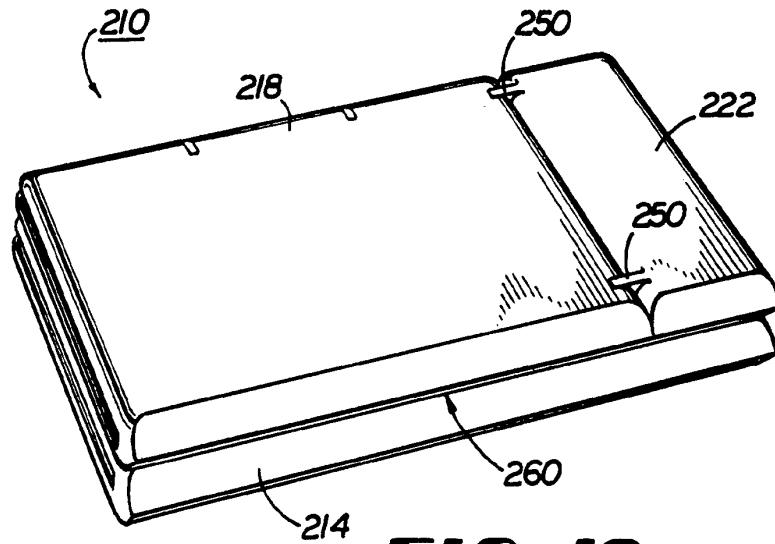
**FIG 13**



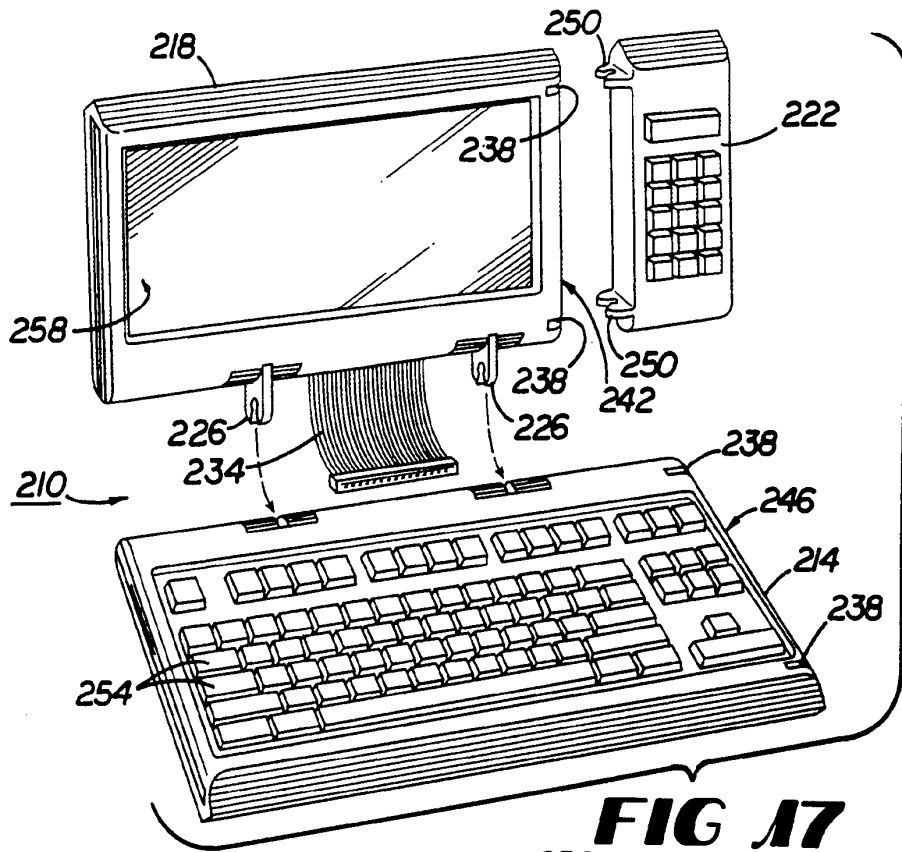
**FIG 14**



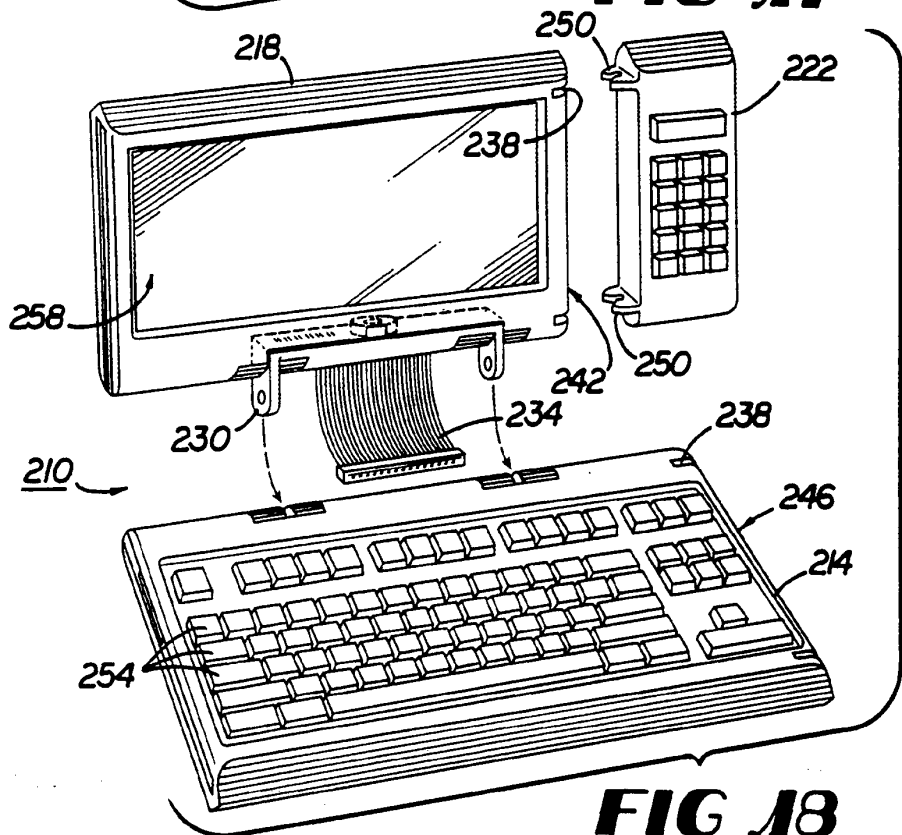
**FIG 15**



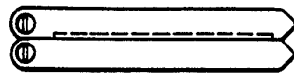
**FIG 16**



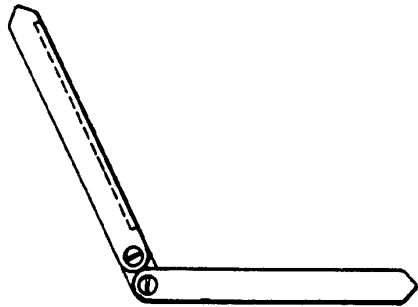
**FIG 17**



**FIG 18**



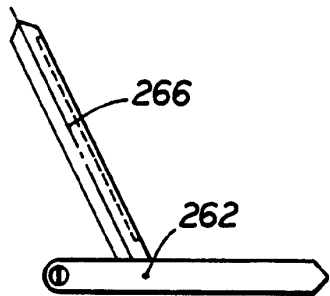
**FIG 19**



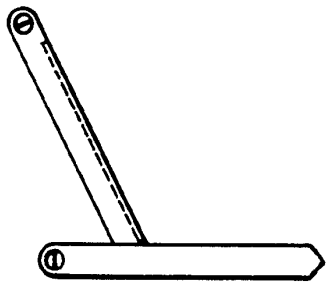
**FIG 20**



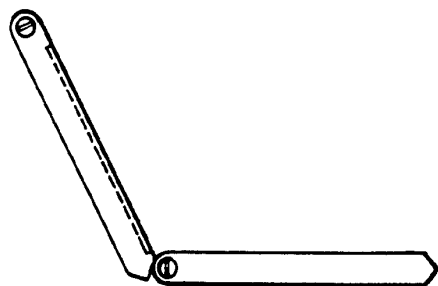
**FIG 21**



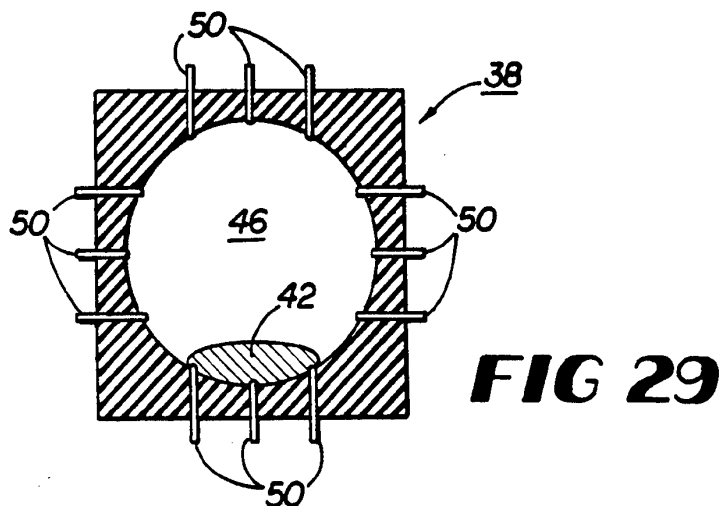
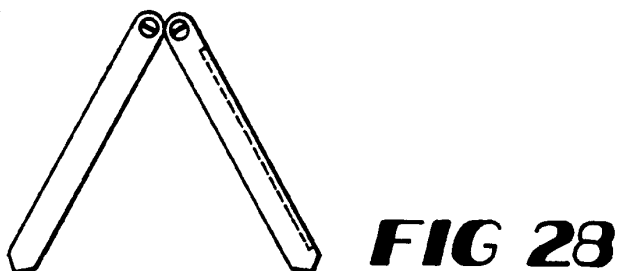
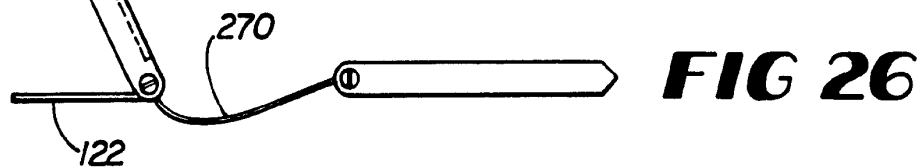
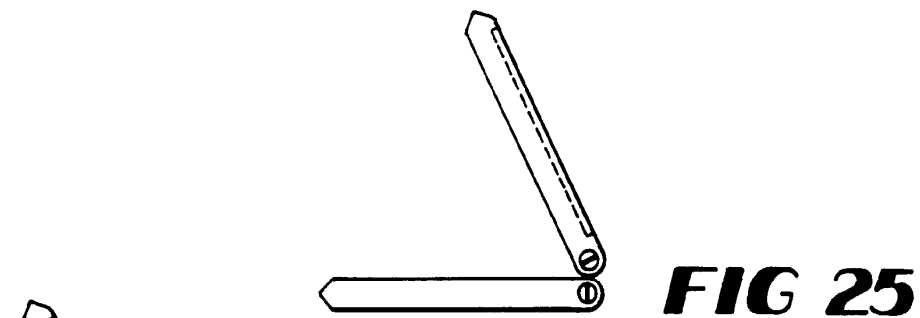
**FIG 22**



**FIG 23**



**FIG 24**



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**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/US95/02468

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
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>B. FIELDS SEARCHED</b>		
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)		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
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
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* *A* *E* *L* *O* *P*	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier document published on or after the international filing date 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) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	"T" "X" "Y" "&" 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 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 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 <i>Michael W. Phillips</i> MICHAEL W. PHILLIPS Telephone No. (703) 308-3191

# 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.



## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US95/02468

### 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

From the INTERNATIONAL BUREAU

## PCT

NOTIFICATION CONCERNING  
TRANSMITTAL OF COPY OF INTERNATIONAL  
PRELIMINARY REPORT ON PATENTABILITY  
(CHAPTER I OF THE PATENT COOPERATION  
TREATY)

(PCT Rule 44bis.1(c))

To:

GRADY, Matthew, H.  
Lowrie, Lando & Anastasi, LLP  
One Main Street, Eleventh Floor  
Cambridge, MA 02142  
ETATS-UNIS D'AMERIQUE

Date of mailing ( <i>day/month/year</i> ) 14 October 2010 (14.10.2010)		
Applicant's or agent's file reference L2039-7004WO		<b>IMPORTANT NOTICE</b>
International application No. PCT/US2009/039117	International filing date ( <i>day/month/year</i> ) 01 April 2009 (01.04.2009)	Priority date ( <i>day/month/year</i> ) 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	Authorized officer  <b>Beate Giffo-Schmitt</b>
Facsimile No. +41 22 338 82 70	e-mail: pt03.pct@wipo.int

**PATENT COOPERATION TREATY**

**PCT**

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

(PCT Rule 44bis)

Applicant's or agent's file reference L2039-7004WO	<b>FOR FURTHER ACTION</b>		See item 4 below
International application No. PCT/US2009/039117	International filing date ( <i>day/month/year</i> ) 01 April 2009 (01.04.2009)	Priority date ( <i>day/month/year</i> ) 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			

<p>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 <i>bis</i>.1(a).</p> <p>2. This REPORT consists of a total of 7 sheets, including this cover sheet.</p> <p>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.</p>																								
<p>3. This report contains indications relating to the following items:</p> <table> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. I</td> <td>Basis of the report</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table> <p>4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.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 44bis .2).</p>	<input checked="" type="checkbox"/>	Box No. I	Basis of the report	<input type="checkbox"/>	Box No. II	Priority	<input checked="" type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/>	Box No. VI	Certain documents cited	<input type="checkbox"/>	Box No. VII	Certain defects in the international application	<input checked="" type="checkbox"/>	Box No. VIII	Certain observations on the international application
<input checked="" type="checkbox"/>	Box No. I	Basis of the report																						
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<input checked="" type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability																						
<input type="checkbox"/>	Box No. IV	Lack of unity of invention																						
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement																						
<input type="checkbox"/>	Box No. VI	Certain documents cited																						
<input type="checkbox"/>	Box No. VII	Certain defects in the international application																						
<input checked="" type="checkbox"/>	Box No. VIII	Certain observations on the international application																						

<p align="center">The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No. +41 22 338 82 70</p>	<p>Date of issuance of this report 05 October 2010 (05.10.2010)</p>
	<p>Authorized officer</p> <p align="center"><b>Beate Giffo-Schmitt</b></p> <p>e-mail: pt03.pct@wipo.int</p>

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	<b>FOR FURTHER ACTION</b> See paragraph 2 below
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International application No. <b>PCT/US2009/039117</b>	International filing date (day/month/year) <b>01 APRIL 2009 (01.04.2009)</b>	Priority date(day/month/year) 01 APRIL 2008 (01.04.2008)
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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 Korean Intellectual Property Office Government Complex-Daejeon, 139 Seonsa-ro, Seo-gu, Daejeon 302 -701, Republic of Korea Facsimile No. 82-42-472-7140	Date of completion of this opinion 28 SEPTEMBER 2009 (28.09.2009)	Authorized officer JEONG, Jae Woo  Telephone No.82-42-481-5718	
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**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 additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/US2009/039117

**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 Instructions, 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 Instructions, 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.

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
**PCT/US2009/039117**

**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).



**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

**PCT/US2009/039117**

**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 *da ppe Fran*

DUE: *15. - Search rpt*

PCT

*6.3.09*

*9.3.09*

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT AND  
THE WRITTEN OPINION OF THE INTERNATIONAL  
SEARCHING AUTHORITY, OR THE DECLARATION *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 Rule 44.1)

Date of mailing (day/month/year)	03/06/2009
Applicant's or agent's file reference A2029-7001WO	<b>FOR FURTHER ACTION</b> See paragraphs 1 and 4 below
International application No. PCT/US2009/038599	International filing date (day/month/year) 27/03/2009
Applicant AQUENT, LLC	

1.  The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

**Filing of amendments and statement under Article 19:**  
The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

**When?** The time limit for filing such amendments is normally two months from the date of transmittal of the International Search Report.

**Where?** Directly to the International Bureau of WIPO, 34 chemin des Colombettes  
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70

**For more detailed instructions, see 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  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	Authorized officer  Marja Brouwers
---	--

## 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.**

## NOTES TO FORM PCT/ISA/220 (continued)

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."  
"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 A2029-7001WO	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2009/038599	International filing date (day/month/year) 27/03/2009	(Earliest) Priority Date (day/month/year) 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.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of:

- the international application in the language in which it was filed
- a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b.  This international search report has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c.  With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2.  Certain claims were found unsearchable. (See Box No. II)

3.  Unity of invention is lacking (see Box No III)

4. With regard to the title,

- the text is approved as submitted by the applicant
- the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant
- the text has been established, according to Rule 38.2(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

- 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 <b>27 May 2009</b>	Date of mailing of the international search report <b>03/06/2009</b>
---	---

Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer  <b>Arranz, José</b>
---	---

Information on patent family members

International application No  
PCT/US2009/038599

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

PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY  
(PCT Rule 43bis.1)

To:

see form PCT/ISA/220

Date of mailing  
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference  
see form PCT/ISA/220

**FOR FURTHER ACTION**  
See paragraph 2 below

International application No.  
PCT/US2009/038599

International filing date (day/month/year)  
27.03.2009

Priority date (day/month/year)  
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 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 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 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:



European Patent Office  
P.B. 5818 Patentlaan 2  
NL-2280 HV Rijswijk - Pays Bas  
Tel. +31 70 340 - 2040  
Fax: +31 70 340 - 3016


Date of completion of  
this opinion

see form  
PCT/ISA/210

Authorized Officer

Arranz, José

Telephone No. +31 70 340-4870





**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/US2009/038599

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**Box No. I Basis of the opinion**

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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:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/US2009/038599

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**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**

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1. Statement

Novelty (N)	Yes: Claims	<u>6,7,14-24</u>
	No: Claims	<u>1-5,8-13,25,26</u>
Inventive step (IS)	Yes: Claims	
	No: Claims	<u>1-26</u>
Industrial applicability (IA)	Yes: Claims	<u>1-26</u>
	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

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING  
AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/US2009/038599

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)

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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.

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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.

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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).

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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.

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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 IPEA (international preliminary examination report).

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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

<b>EFS ID:</b>	28095123
<b>Application Number:</b>	14680422
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	5691
<b>Title of Invention:</b>	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
<b>First Named Inventor/Applicant Name:</b>	Yves Behar
<b>Customer Number:</b>	23628
<b>Filer:</b>	Marcus E. Browne/Lynn McNamara
<b>Filer Authorized By:</b>	Marcus E. Browne
<b>Attorney Docket Number:</b>	L2039.70004US03
<b>Receipt Date:</b>	18-JAN-2017
<b>Filing Date:</b>	07-APR-2015
<b>Time Stamp:</b>	14:42:15
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
------------------------	----

### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	L203970004US03-TRN-MEB.pdf	73540 <small>eb5e09d419f7370867510a403d16a694b5fa36a9</small>	no	1

### Warnings:

<b>Information:</b>					
2		L203970004US03-IDS-MEB.pdf	110163 e131907df04672d60c475fe792e9411bb27c4107	yes	6
<b>Multipart Description/PDF files in .zip description</b>					
		<b>Document Description</b>	<b>Start</b>	<b>End</b>	
		Transmittal Letter	1	4	
		Information Disclosure Statement (IDS) Form (SB08)	5	6	
<b>Warnings:</b>					
<b>Information:</b>					
3	Foreign Reference	GB2321982A.pdf	2126667 716e5368e7fcc1509c715ade06f7d11bc56d834ee	no	12
<b>Warnings:</b>					
<b>Information:</b>					
4	Foreign Reference	WO9524007A1.pdf	5161067 682b6e8bac03fe2d1d9e2d49f36e0773c227df99	no	31
<b>Warnings:</b>					
<b>Information:</b>					
5	Other Reference-Patent/App/Search documents	L203970004WO00_IPRP_mailed_10-14-2010.pdf	1189961 ee8a0fdcc4bd12dde42f949b409e616bc646ff4a	no	8
<b>Warnings:</b>					
<b>Information:</b>					
6	Other Reference-Patent/App/Search documents	L203970001WO00_ISRWO_mailed_06-03-2009.pdf	845912 bc7a4f7df73cce3f1f8bcf5c8728bc7509f4324b	no	12
<b>Warnings:</b>					
<b>Information:</b>					
7	Other Reference-Patent/App/Search documents	L203970001EP00_ER_dated_11-22-2016.pdf	275378 1a03a118ef3072b41500d8683afa39c741779435	no	8
<b>Warnings:</b>					
<b>Information:</b>					

8	Other Reference-Patent/App/Search documents	L203970004EP00_EESR_mailed_04-05-2011.pdf	229033	no	7
			5120e937826ce621e4be96bfc191699dcb4a9cbb		
<b>Warnings:</b>					
<b>Information:</b>					
9	Other Reference-Patent/App/Search documents	L203970001CN00_OA_mailed_07-18-2013.pdf	342135	no	7
			499df04b82958032dfe9dc0f58407d6be61315b		
<b>Warnings:</b>					
<b>Information:</b>					
10	Other Reference-Patent/App/Search documents	L203970001EP00_Comm_date_11-23-2015.pdf	155280	no	5
			b4a3876aead38fa602d6c313e827d76734a5fb60		
<b>Warnings:</b>					
<b>Information:</b>					
11	Other Reference-Patent/App/Search documents	L203970001JP00_OA_mailed_04-16-2013.pdf	103858	no	3
			0d2afc8979ad93cc8ae190d75c2956ac7ffdd2730		
<b>Warnings:</b>					
<b>Information:</b>					
12	Other Reference-Patent/App/Search documents	L203970001JP00_OA_mailed_12-04-2012_w_Eng_translation.pdf	381955	no	9
			6badcee108b65e435e75faa49df5eb5d7c3e04c		
<b>Warnings:</b>					
<b>Information:</b>					
13	Other Reference-Patent/App/Search documents	L203970001US02_OA_dated_06-07-2012.pdf	614167	no	19
			1dbd6bf5c456d09f2c748460f7175b527812faa5		
<b>Warnings:</b>					
<b>Information:</b>					
14	Other Reference-Patent/App/Search documents	L203970001US02_OA_dated_04-04-2011.pdf	337086	no	11
			707b2d2e84d46a8bb16c0270adff007cf7514389		
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>			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.**

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

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

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

<b>Certificate of Electronic Filing Under 37 CFR 1.8</b> I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 CFR § 1.6(a)(4). Dated: _____ 01-18-2017 _____ Signature: _____/Lynn P. McNamara/_____ (Lynn P. McNamara)	
---	--

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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

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**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 18<sup>th</sup> day of January, 2017.

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

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**MAIL STOP AMENDMENT**

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

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

Sir:

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

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

This Information Disclosure Statement has been filed before the mailing of a first Office Action on the merits in the above-identified case.

No fee or certification is required.

PART II: Information Cited

The undersigned hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified PTO/SB/08). The order of

presentation of the references should not be construed as an indication of the importance of the references.

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

The undersigned would like to bring to the Examiner's attention the following co-pending application that may contain subject matter related to this application:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor(s)</u>	<u>Docket No.</u>
*15/280,928	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:

<u>Serial No.</u>	<u>Date of Mailing</u>	<u>Type(s) of Communication</u>	<u>Docket No.</u>
<b>EP 9727165.4</b>	<b>11-22-2016</b>	<b>European Examination Report</b>	<b>L2039.70001EP00</b>
<b>PCT/US2009/038599</b>	<b>06-03-2009</b>	<b>International Search Report and Written Opinion</b>	<b>L2039.70001WO00</b>
<b>EP 09755433.1</b>	<b>04-05-2011</b>	<b>Extended European Search Report</b>	<b>L2039.70004EP00</b>
<b>PCT/US2009/39117</b>	<b>10-14-2010</b>	<b>International Preliminary Report on Patentability</b>	<b>L2039.70004WO00</b>

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.

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

- 4 -

Art Unit: 2141

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: January 18, 2017  
**xNDDx**



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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**

**POA ACCEPTANCE LETTER**

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



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/

Doc Code: PA.  
 Document Description: Power of Attorney

PTO/AIA/82A (07-13)  
 Approved for use through 11/30/2014. OMB 0651-0051  
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## TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

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

Application Number	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		
<b>SIGNATURE of Applicant or Patent Practitioner</b>			
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)			
<b>NOTE:</b> This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.			
<input type="checkbox"/> *Total of <u>  1  </u> 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 electronic filing system in accordance with 37 CFR § 1.6(a)(4).

Dated: March 18, 2016 \_\_\_\_\_ Electronic Signature for Sara A. Sikorski: /Sara A. Sikorski/



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I hereby revoke all previous powers of attorney given in the application identified in <u>either</u> the attached transmittal letter or the boxes below.																							
Application Number	Filing Date																						
(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)																							
<input checked="" type="checkbox"/>	I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: <span style="border: 1px solid black; padding: 2px 20px;">23628</span>																						
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Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:																							
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; padding: 2px;">Firm or Individual Name</td> <td colspan="3"></td> </tr> <tr> <td style="padding: 2px;">Address</td> <td colspan="3"></td> </tr> <tr> <td style="padding: 2px;">City</td> <td style="padding: 2px;">State</td> <td style="padding: 2px;">Zip</td> <td></td> </tr> <tr> <td style="padding: 2px;">Country</td> <td colspan="3"></td> </tr> <tr> <td style="padding: 2px;">Telephone</td> <td style="padding: 2px;">Email</td> <td colspan="2"></td> </tr> </table>				Firm or Individual Name				Address				City	State	Zip		Country				Telephone	Email		
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Address																							
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I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):																							
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<input type="checkbox"/>	Inventor or Joint Inventor (title not required below)																						
<input type="checkbox"/>	Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)																						
<input checked="" type="checkbox"/>	Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)																						
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<b>SIGNATURE of Applicant for Patent</b>																							
The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).																							
Signature	<i>Kristin Carroll</i>	Date (Optional)	<i>2/26/2016</i>																				
Name	Kristin Carroll																						
Title	General Counsel																						
NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.																							
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## Electronic Acknowledgement Receipt

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

### Payment information:

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### 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 <small>9b343a38b8525757ae853e11cc64cb97032f1a7b</small>	no	1

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2	Power of Attorney	L203990000US00-POA82-EJR.pdf	371240 80cd05c7b4d5ae1af5b3b8f6a567fad2d925fd3c	no	1
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**New Applications Under 35 U.S.C. 111**

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

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

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

**New International Application Filed with the USPTO as a Receiving Office**

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

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		14680422
	Filing Date		2015-04-07
	First Named Inventor	Yves Behar	
	Art Unit		2143
	Examiner Name	J. N. To	
	Attorney Docket Number		L2039-700421

U.S. PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	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.	
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	8	5712760		1998-01-27	Coulon et al.	

**INFORMATION DISCLOSURE  
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Application Number		14680422
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Art Unit	2143	
Examiner Name	J. N. To	
Attorney Docket Number	L2039-700421	

	9	5790371		1998-08-04	Latocha et al.	
	10	5793355		1998-08-11	Youens	
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	17	5949643		1999-09-07	Batio	
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	20	6067224		2000-05-23	Nobuchi	
	21	6094191		2000-07-25	Watanabe et al.	
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	26	6262885		2001-07-17	Emma et al.	
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	28	6275376		2001-08-14	Moon	
	29	6295038		2001-09-25	Rebeske	
	30	6302612		2001-10-16	Fowler et al.	

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	31	6323846		2001-11-27	Westerman et al.	
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	33	6341061		2002-01-22	Eisbach et al.	
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	38	6492974		2002-12-10	Nobuchi et al.	
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	42	6659516		2003-12-09	Wang et al.	
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	49	6819304		2004-11-16	Branson	
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Attorney Docket Number	L2039-700421

	75	D333636		1993-03-02	Issa	
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Attorney Docket Number	L2039-700421

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87	D491936		2004-06-22	Jao	
88	D494162		2004-08-10	Kondo	
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96	D518042		2006-03-28	Kanayama	

**INFORMATION DISCLOSURE  
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Application Number	14680422
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Attorney Docket Number	L2039-700421

	97	D523429		2006-06-20	Lin	
	98	D528541		2006-09-19	Maskatia	
	99	D528993		2006-09-26	Wilson	
	100	D534531		2007-01-02	Ogasawara	
	101	D535292		2007-01-16	Shi et al.	
	102	D544846		2007-06-19	Kindle et al.	
	103	D581371		2008-11-25	Richmond	
	104	D593085		2009-05-26	Behar et al.	
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		14680422	
	Filing Date		2015-04-07	
	First Named Inventor	Yves Behar		
	Art Unit		2143	
	Examiner Name	J. N. To		
	Attorney Docket Number		L2039-700421	

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<b>U.S.PATENT APPLICATION PUBLICATIONS</b>						<a href="#">Remove</a>
Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	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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Examiner Name	J. N. To	
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.	
	13	20040212602		2004-10-28	Nako et al.	
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	15	20050005241		2005-01-06	Hunleth et al.	
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Attorney Docket Number	L2039-700421

21	20050083642		2005-04-21	Senpuku et al.	
22	20050091596		2005-04-28	Anthony et al.	
23	20050128695		2005-06-16	Han	
24	20050134717		2005-06-23	Misawa	
25	20050146845		2005-07-07	Moscovitch	
26	20050210399		2005-09-22	Filner et al.	
27	20050221865		2005-10-06	Nishiyama et al.	
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30	20060015823		2006-01-19	Chao et al.	
31	20060123353		2006-06-08	Matthews et al.	



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	32	20060126284		2006-06-15	Moscovitch	
	33	20060238439		2006-10-26	Fuller et al.	
	34	20060264243		2006-11-23	Aarras	
	35	20060268500		2006-11-30	Kuhn	
	36	20060271644		2006-11-30	Yamaizumi et al.	
	37	20060277167		2006-12-07	Gross et al.	
	38	20070073833		2007-03-29	Roy et al.	
	39	20070138806		2007-06-21	Ligtenberg et al.	
	40	20070182663		2007-08-09	Biech	
	41	20070240076		2007-10-11	Astala et al.	
	42	20070242421		2007-10-18	Goschin et al.	

**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

43	20070247446		2007-10-25	Orsley et al.	
44	20080024388		2008-01-31	Bruce	
45	20080024465		2008-01-31	Hawkins et al.	
46	20080042987		2008-02-21	Westerman et al.	
47	20080059888		2008-03-06	Dunko	
48	20080062625		2008-03-13	Batio	
49	20080074831		2008-03-27	Lee et al.	
50	20080092039		2008-04-17	Brockway et al.	
51	20080134093		2008-06-05	Dharmarajan et al.	
52	20080158795		2008-07-03	Aoki et al.	
53	20080174570		2008-07-24	Jobs et al.	

**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	

	54	20080209493		2008-08-28	Choi et al.	
	55	20080235594		2008-09-25	Bhumkar et al.	
	56	20080284738		2008-11-20	HOVDEN et al.	
	57	20090019383		2009-01-15	Riley et al.	
	58	20090019479		2009-01-15	KWAK et al.	
	59	20090150826		2009-06-11	Lyndersay et al.	
	60	20090190295		2009-07-30	Chin et al.	
	61	20090193364		2009-07-30	JARRETT et al.	
	62	20090244012		2009-10-01	Behar et al.	
	63	20090244832		2009-10-01	Behar et al.	
	64	20090275366		2009-11-05	Schilling	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
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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	

	65	20090300511		2009-12-03	Behar et al.	
	66	20090303676		2009-12-10	Behar et al.	
	67	20090322790		2009-12-31	Behar et al.	
	68	20100174993		2010-07-08	Pennington et al.	
	69	20130141854		2013-06-06	Behar et al.	
	70	20140282263		2014-09-18	Pennington et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. **Add**

**FOREIGN PATENT DOCUMENTS**

Remove

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> j	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1	1292112	CN	A	2001-04-18	Sharp Kk		<input checked="" type="checkbox"/>
	2	19952486	DE	A1	2001-05-03	Schweizer Joachim et al.		<input type="checkbox"/>
	3	0588210	EP	A1	1994-03-23	Hitachi Ltd		<input checked="" type="checkbox"/>

**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	

4	10-111658	JP	A	1998-04-28	Fujitsu Ltd		<input checked="" type="checkbox"/>
5	11-296259	JP		1999-10-29	CANON INC.		<input checked="" type="checkbox"/>
6	2001-167211	JP	A	2001-06-22	Hitachi Ltd et al.		<input checked="" type="checkbox"/>
7	2004-302179	JP	A	2004-10-28	Hitachi Ltd		<input checked="" type="checkbox"/>
8	2005-159741	JP	A	2005-06-16	Fuji Photo Film Co Ltd		<input checked="" type="checkbox"/>
9	2005-242436	JP	A	2005-09-08	Matsushita Electric Ind Co Ltd		<input checked="" type="checkbox"/>
10	2006-227409	JP		2006-08-31	NIKON CORP.		<input checked="" type="checkbox"/>
11	5-197507	JP	A	1993-08-06	Hitachi Ltd		<input checked="" type="checkbox"/>
12	6-242853	JP	A	1994-09-02	Hitachi Ltd et al.		<input checked="" type="checkbox"/>
13	6-259166	JP	A	1994-09-16	Hitachi Ltd		<input checked="" type="checkbox"/>
14	6090200	JP	A	1994-03-29	HITACHI LTD		<input checked="" type="checkbox"/>

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		14680422	
	Filing Date		2015-04-07	
	First Named Inventor	Yves Behar		
	Art Unit	2143		
	Examiner Name	J. N. To		
	Attorney Docket Number	L2039-700421		

	15	8-179851	JP	A	1996-07-12	Toshiba Corp	<input checked="" type="checkbox"/>
	16	1020000036647	KR		2002-06-15	LG Electronics Inc.	<input checked="" type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button **Add**

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

If you wish to add additional non-patent literature document citation information please click the Add button **Add**

**EXAMINER SIGNATURE**

Examiner Signature		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.

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

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number	14680422
	Filing Date	2015-04-07
	First Named Inventor	Yves Behar
	Art Unit	2143
	Examiner Name	J. N. To
	Attorney Docket Number	L2039-700421

**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

**OR**

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Marcus E. Browne/	Date (YYYY-MM-DD)	2015-11-10
Name/Print	Marcus E. Browne	Registration Number	71897

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

## Privacy Act Statement

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

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

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



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: 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:

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

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

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

### Payment information:

Submitted with Payment	no
------------------------	----

### File Listing:

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

### Warnings:

### Information:

2	Transmittal Letter	Information_Disclosure_Statement.pdf	28783 b2ecff6bd43e11c3dcf64cbefca0db5ee3d58e	no	2
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>				1069037	
<p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  <b>If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  <b>If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  <b>If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</b></p>					



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Table with 4 columns: APPLICATION NUMBER (14/680,422), FILING OR 371(C) DATE (04/07/2015), FIRST NAMED APPLICANT (Yves Behar), ATTY. DOCKET NO./TITLE (L2039-700421)

CONFIRMATION NO. 5691

PUBLICATION NOTICE

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



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.

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

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

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

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

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



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 4 columns: APPLICATION NUMBER (14/680,422), FILING OR 371(C) DATE (04/07/2015), FIRST NAMED APPLICANT (Yves Behar), ATTY. DOCKET NO./TITLE (L2039-700421)

CONFIRMATION NO. 5691

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

INFORMAL NOTICE



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/

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**PATENT APPLICATION FEE DETERMINATION RECORD**

Substitute for Form PTO-875

Application or Docket Number  
14/680,422

**APPLICATION AS FILED - PART I**

		(Column 1)	(Column 2)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
FOR		NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	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), (l), 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 = *			OR	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)	(Column 2)	(Column 3)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	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))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
				TOTAL ADD'L FEE			OR	TOTAL ADD'L FEE		
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	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))							OR		
	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".  
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Table with 7 columns: APPLICATION NUMBER, FILING or 371(c) DATE, GRP ART UNIT, FIL FEE REC'D, ATTY. DOCKET NO, TOT CLAIMS, IND CLAIMS. Row 1: 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

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)

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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

## **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

page 2 of 4

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

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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**

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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

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Attorneys for Applicant



## UNITED STATES PATENT AND TRADEMARK 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	L2039-700421

CONFIRMATION NO. 5691

## FORMALITIES LETTER

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



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:**

page 1 of 2

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

/bmnguyen/

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

## Electronic Patent Application Fee Transmittal

<b>Application Number:</b>	14680422			
<b>Filing Date:</b>	07-Apr-2015			
<b>Title of Invention:</b>	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT			
<b>First Named Inventor/Applicant Name:</b>	Yves Behar			
<b>Filer:</b>	Marcus E. Browne			
<b>Attorney Docket Number:</b>	L2039-700421			
Filed as Large Entity				
<b>Filing Fees for Utility under 35 USC 111(a)</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
Utility application filing	1011	1	280	280
Utility Search Fee	1111	1	600	600
Utility Examination Fee	1311	1	720	720
<b>Pages:</b>				
Utility Appl Size fee per 50 sheets >100	1081	1	400	400
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
Late Filing Fee for Oath or Declaration	1051	1	140	140

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



## Electronic Acknowledgement Receipt

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

**Information:**

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

**Information:**

<b>Total Files Size (in bytes):</b>			293401		
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

**New Applications Under 35 U.S.C. 111**

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

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

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

**New International Application Filed with the USPTO as a Receiving Office**

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

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

ENTITY:  LARGE  SMALL  MICRO

**APPLICATION AS FILED – PART I**

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

**APPLICATION AS AMENDED – PART II**

AMENDMENT	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	<b>06/22/2015</b>	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR			
	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
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))					
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					
					TOTAL ADD'L FEE	<b>0</b>

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

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

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

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

**PATENT APPLICATION FEE DETERMINATION RECORD**

Substitute for Form PTO-875

Application or Docket Number  
14/680,422

**APPLICATION AS FILED - PART I**

		(Column 1)	(Column 2)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
FOR		NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	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), (l), 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 = *			OR	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)	(Column 2)	(Column 3)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	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))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
				TOTAL ADD'L FEE			OR	TOTAL ADD'L FEE		
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	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))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
				TOTAL ADD'L FEE			OR	TOTAL ADD'L FEE		

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

Table with 4 columns: APPLICATION NUMBER (14/680,422), FILING OR 371(C) DATE (04/07/2015), FIRST NAMED APPLICANT (Yves Behar), ATTY. DOCKET NO./TITLE (L2039-700421)

CONFIRMATION NO. 5691

FORMALITIES LETTER

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



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/

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

Table with 7 columns: APPLICATION NUMBER, FILING or 371(c) DATE, GRP ART UNIT, FIL FEE REC'D, ATTY. DOCKET NO, TOT CLAIMS, IND CLAIMS. Row 1: 14/680,422, 04/07/2015, 2143, 0.00, L2039-700421, 20, 1

CONFIRMATION NO. 5691

FILING RECEIPT



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

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

page 2 of 4

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

**LICENSE FOR FOREIGN FILING UNDER**  
**Title 35, United States Code, Section 184**  
**Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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

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

**NOT GRANTED**

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

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

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Application Data Sheet 37 CFR 1.76</b>		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. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

### Secrecy Order 37 CFR 5.2

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

### Inventor Information:

<b>Inventor 1</b>					<input type="button" value="Remove"/>
<b>Legal Name</b>					
<b>Prefix</b>	<b>Given Name</b>	<b>Middle Name</b>	<b>Family Name</b>	<b>Suffix</b>	
	Yves		Behar		
<b>Residence Information (Select One)</b> <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
<b>City</b>	Oakland	<b>State/Province</b>	CA	<b>Country of Residence i</b>	US
<b>Mailing Address of Inventor:</b>					
<b>Address 1</b>	5741 Scarborough Drive				
<b>Address 2</b>					
<b>City</b>	Oakland	<b>State/Province</b>	CA		
<b>Postal Code</b>	94611	<b>Country i</b>	US		
<b>Inventor 2</b>					<input type="button" value="Remove"/>
<b>Legal Name</b>					
<b>Prefix</b>	<b>Given Name</b>	<b>Middle Name</b>	<b>Family Name</b>	<b>Suffix</b>	
	Joshua		Morenstein		
<b>Residence Information (Select One)</b> <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
<b>City</b>	San Francisco	<b>State/Province</b>	CA	<b>Country of Residence i</b>	US
<b>Mailing Address of Inventor:</b>					
<b>Address 1</b>	124 Downey Street				
<b>Address 2</b>					
<b>City</b>	San Francisco	<b>State/Province</b>	CA		
<b>Postal Code</b>	94117	<b>Country i</b>	US		
<b>Inventor 3</b>					<input type="button" value="Remove"/>
<b>Legal Name</b>					
<b>Prefix</b>	<b>Given Name</b>	<b>Middle Name</b>	<b>Family Name</b>	<b>Suffix</b>	
	Christopher		Hibmacronan		
<b>Residence Information (Select One)</b> <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Application Data Sheet 37 CFR 1.76</b>		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
<b>Mailing Address of Inventor:</b>					
Address 1		2429 Damuth Street			
Address 2					
City	Oakland	State/Province	CA		
Postal Code	94602	Country i	US		
Inventor 4					<input type="button" value="Remove"/>
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Naoya		Edahiro		
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	San Francisco	State/Province	CA	Country of Residence i	US
<b>Mailing Address of Inventor:</b>					
Address 1		375 Bartlett Street			
Address 2					
City	San Francisco	State/Province	CA		
Postal Code	94110	Country i	US		
Inventor 5					<input type="button" value="Remove"/>
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Matthew	David	Day		
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	San Francisco	State/Province	CA	Country of Residence i	US
<b>Mailing Address of Inventor:</b>					
Address 1		425 2nd Street #301			
Address 2					
City	San Francisco	State/Province	CA		
Postal Code	94107	Country i	US		
Inventor 6					<input type="button" value="Remove"/>
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Robert	Sanford Havoc	Pennington		
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Asheville	State/Province	NC	Country of Residence i	US

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number		L2039-700421	
		Application Number			
Title of Invention		SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT			
<b>Mailing Address of Inventor:</b>					
Address 1		24 Warwick Road			
Address 2					
City	Asheville	State/Province		NC	
Postal Code		28803	Country i	US	
Inventor 7					<input type="button" value="Remove"/>
Legal Name					
Prefix	Given Name	Middle Name		Family Name	Suffix
	Noah	Bruce		Guyot	
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Mill Valey	State/Province	CA	Country of Residence i	US
<b>Mailing Address of Inventor:</b>					
Address 1		4 Longfellow Rd			
Address 2					
City	Mill Valey	State/Province		CA	
Postal Code		94941	Country i	US	
Inventor 8					<input type="button" value="Remove"/>
Legal Name					
Prefix	Given Name	Middle Name		Family Name	Suffix
	Daniel			Kuo	
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	San Francisco	State/Province	CA	Country of Residence i	US
<b>Mailing Address of Inventor:</b>					
Address 1		1916 Page St. Apt 1			
Address 2					
City	San Francisco	State/Province		CA	
Postal Code		94117	Country i	US	
Inventor 9					<input type="button" value="Remove"/>
Legal Name					
Prefix	Given Name	Middle Name		Family Name	Suffix
	Jenea	Boshart		Hayes	
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Castro Valley	State/Province	CA	Country of Residence i	US

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

<b>Mailing Address of Inventor:</b>				
Address 1	18379 Plymouth Dr.			
Address 2				
City	Castro Valley	State/Province	CA	
Postal Code	94546	Country i	US	
Inventor 10				Remove
<b>Legal Name</b>				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Aaron		Tang	
<b>Residence Information (Select One)</b> <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service				
City	Somerville	State/Province	MA	Country of Residence i US

<b>Mailing Address of Inventor:</b>				
Address 1	28 Dickinson St. Apt B			
Address 2				
City	Somerville	State/Province	MA	
Postal Code	02143	Country i	US	
Inventor 11				Remove
<b>Legal Name</b>				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Donald	Francis	Fischer	
<b>Residence Information (Select One)</b> <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service				
City	Charlestown	State/Province	MA	Country of Residence i US

<b>Mailing Address of Inventor:</b>				
Address 1	42 8th St #2515			
Address 2				
City	Charlestown	State/Province	MA	
Postal Code	02129	Country i	US	
Inventor 12				Remove
<b>Legal Name</b>				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Christian	Marc	Schmidt	
<b>Residence Information (Select One)</b> <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service				
City	Brooklyn	State/Province	NY	Country of Residence i US

<b>Mailing Address of Inventor:</b>				
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<b>Application Data Sheet 37 CFR 1.76</b>		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) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> 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) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> 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) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Brookline	State/Province	MA	Country of Residence i	US
Mailing Address of Inventor:					
Address 1		185 Buckminster Road			



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<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	L2039-700421	
		Application Number		
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT			
<b>Address 2</b>				
City	Brookline	State/Province	MA	
Postal Code	02445	Country i	US	
<b>Inventor 16</b>				<input type="button" value="Remove"/>
<b>Legal Name</b>				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Chris		Bambacus	
<b>Residence Information (Select One)</b> <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service				
City	Framingham	State/Province	MA	Country of Residence i US
<b>Mailing Address of Inventor:</b>				
Address 1	19 Burdette Ave.			
<b>Address 2</b>				
City	Framingham	State/Province	MA	
Postal Code	01702	Country i	US	
<b>Inventor 17</b>				<input type="button" value="Remove"/>
<b>Legal Name</b>				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Bart		Haney	
<b>Residence Information (Select One)</b> <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service				
City	Boston	State/Province	MA	Country of Residence i US
<b>Mailing Address of Inventor:</b>				
Address 1	711 Boylston Street			
<b>Address 2</b>				
City	Boston	State/Province	MA	
Postal Code	02116	Country i	US	
<b>Inventor 18</b>				<input type="button" value="Remove"/>
<b>Legal Name</b>				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Logan		Ray	
<b>Residence Information (Select One)</b> <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service				
City	Boston	State/Province	MA	Country of Residence i US
<b>Mailing Address of Inventor:</b>				
Address 1	711 Boylston Street			
<b>Address 2</b>				

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<b>Application Data Sheet 37 CFR 1.76</b>		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	US	
Inventor	19			<input type="button" value="Remove"/>
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Serge		Beaulieu	
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service				
City	San Francisco	State/Province	CA	Country of Residence
				US
<b>Mailing Address of Inventor:</b>				
Address 1	409B Lyon Street			
Address 2				
City	San Francisco	State/Province	CA	
Postal Code	94117	Country	US	
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the <b>Add</b> button.				<input type="button" value="Add"/>

**Correspondence Information:**

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).	
<input type="checkbox"/> An Address is being provided for the correspondence information of this application.	
Customer Number	37462
Email Address	<input type="button" value="Add Email"/> <input type="button" value="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	<input type="checkbox"/>
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
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Application Data Sheet 37 CFR 1.76</b>		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:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> 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		<a href="#">Remove</a>		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
	Continuation of	12416496	2009-04-01		
Prior Application Status	Patented		<a href="#">Remove</a>		
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		<a href="#">Remove</a>		
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		<a href="#">Remove</a>		
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

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<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	L2039-700421
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT		
Prior Application Status	Expired	<input type="button" value="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	<input type="button" value="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 <b>Add</b> button.			<input type="button" value="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) 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).

<input type="button" value="Remove"/>			
Application Number	Country <sup>i</sup>	Filing Date (YYYY-MM-DD)	Access Code <sup>j</sup> (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the <b>Add</b> button.			<input type="button" value="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

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Application Data Sheet 37 CFR 1.76</b>	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 of filing this Authorization.

## Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
<b>Applicant 1</b>			<input type="button" value="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.			
<input type="button" value="Clear"/>			
<input checked="" type="radio"/> Assignee	<input type="radio"/> Legal Representative under 35 U.S.C. 117	<input type="radio"/> Joint Inventor	
<input type="radio"/> Person to whom the inventor is obligated to assign.		<input type="radio"/> 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 : <input type="text"/>			
If the Applicant is an Organization check here. <input checked="" type="checkbox"/>			
Organization Name	LiTL LLC		
<b>Mailing Address Information For Applicant:</b>			
Address 1	33 Exeter Street		
Address 2			
City	Boston	State/Province	MA
Country <sup>i</sup>	US	Postal Code	02116
Phone Number	(617) 535-8000	Fax Number	

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<b>Application Data Sheet 37 CFR 1.76</b>		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.				<input type="button" value="Add"/>	

**Assignee Information including Non-Applicant Assignee 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.

<b>Assignee 1</b>					
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.					
				<input type="button" value="Remove"/>	
If the Assignee or Non-Applicant Assignee is an Organization check here.				<input type="checkbox"/>	
Prefix	Given Name	Middle Name	Family Name	Suffix	
<b>Mailing Address Information For Assignee including Non-Applicant Assignee:</b>					
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.				<input type="button" value="Add"/>	

**Signature:**

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.					
<b>Signature</b>	/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.				<input type="button" value="Add"/>	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Application Data Sheet 37 CFR 1.76</b>		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.**

## Privacy Act Statement

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

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

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



**SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH  
ELECTRONIC CONTENT**

**RELATED APPLICATIONS**

5           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  
10   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  
15   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  
20   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  
25   reference in its entirety.

**BACKGROUND**

30           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 providers 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  
5 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  
10 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  
15 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  
20 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  
25 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  
30 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.

5 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  
10 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  
15 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.

20 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  
25 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  
30 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  
5 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  
10 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  
15 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  
20 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  
25 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  
30 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  
5 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  
10 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  
15 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.

20 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  
25 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  
30 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.

10           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  
5 representations is responsive to manipulation of the integrated scroll wheel, and the method further comprises an 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  
10 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.

15 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  
20 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  
25 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  
30 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

5 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

10 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

15 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

20 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

25 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

30 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  
5 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  
10 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  
15 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  
20 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  
25 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  
30 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  
5 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  
10 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  
15 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  
20 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  
25 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  
30 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  
5 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.

#### 10 **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  
15 intended as a definition of the limits of the invention. Where technical features in the figures, detailed description or any claim are followed by reference 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  
20 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;

25 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;

30 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;

5 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;

10 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;

15 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;

20 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;

25 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;

30 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;

5 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;

10 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;

15 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;

20 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;

25 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;

30 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;

5 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;

10 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;

15 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;

20 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;

25 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;

30 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 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 providers 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 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  
5   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.

10         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.  
15   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  
20   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  
25   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  
30   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  
5 movie, the first user may share the user interface element through which s/he is accessing the movie, 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.

10 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  
15 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  
20 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  
25 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  
30 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  
5 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

10 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  
15 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  
20 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  
25 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  
30 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  
5 “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.

10 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  
15 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  
20 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  
25 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.

30 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 does not incorporate a hard disk drive for storage, providing for any local storage requirement through RAM and Flash memory.

10           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 appreciated 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.

30   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.

5 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  
10 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  
15 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  
20 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  
25 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  
30 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 though 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.

5 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  
10 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.

15 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  
20 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.

25 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,  
30 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 identified context a default is provided for the user eliminating the requirement of making configuration choices, however, the user is still permitted to access 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 an 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  
5 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  
10 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  
15 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.

20 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  
25 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  
30 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 with 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  
5 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  
10 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  
15 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  
20 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  
25 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  
30 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 within the same web page, the default functionality executed, caused the device to navigate to the selected location within the same window.

5           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  
10       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  
15       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  
20       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.

25           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

30           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  
5 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  
10 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.

15 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  
20 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,  
25 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  
30 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  
5 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  
10 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 its position is not  
15 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  
20 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  
25 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  
30 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  
5 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  
10 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.

15 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  
20 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  
25 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  
30 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.

5 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  
10 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.

15 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 a new tab. In response to a request to display a web page in a new  
20 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  
25 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.  
30 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  
5 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  
10 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  
15 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  
20 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.

25 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  
30 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  
5 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  
10 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  
15 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  
20 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  
25 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.

30 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

5 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

10 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

15 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

20 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

25 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

30 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 all 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 displayed 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 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 is 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  
5 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  
10 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  
15 navigation functionality. In one example, keys with mapped navigation functionality include shift-arrow, ctrl-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  
20 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  
25 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  
30 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 though 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  
5 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  
10 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  
15 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 clicking 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.

#### 20 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  
25 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  
30 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  
5 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  
10 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  
15 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  
20 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  
25 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  
30 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  
5 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  
10 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  
15 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  
20 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  
25 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.

### 30 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  
5 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  
10 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, ctrl-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  
15 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  
20 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  
25 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  
30 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. 5 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 has not yet 10 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 15 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 20 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 25 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 30 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  
5 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  
10 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  
15 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

20 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  
25 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  
30 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 5 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.

10 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 15 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 20 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.

25 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 30 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.

5 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  
10 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  
15 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  
20 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.

25 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.  
30 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  
5 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  
10 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  
15 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  
20 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  
30 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  
5 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  
10 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  
15 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.  
20 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  
25 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.  
30 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

5           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  
10 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  
15 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  
20 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  
25 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.  
30 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 streamlined 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.

5 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  
10 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  
15 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  
20 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  
25 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 base about a 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  
30 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.

### 30 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  
5 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  
10 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 movie, 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  
15 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  
20 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  
25 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  
30 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  
5 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  
10 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  
15 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  
20 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  
25 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.

30 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 5 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. 10 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 15 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 20 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 25 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, 30 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.

5           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  
10 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  
15 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  
20 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  
25 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,  
30 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 invoked 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.

10           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  
5 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

10 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.  
15 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  
20 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.

25 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.  
30 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  
5 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  
10 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  
15 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  
20 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)  
25 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  
30 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 an online service provider. Various online service providers permit remote storage of various computer files. Certain service providers optimize the provided service for specific file types, such as 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.

5           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  
10 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.  
15 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  
20 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,  
25 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  
30 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-  
5 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  
10 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  
15 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  
20 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  
25 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  
30 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.

5           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  
10 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  
15 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  
20 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

25           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.

30           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 from another location. In response to granting permission, an  
5 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  
10 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  
15 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  
20 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.

25 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  
30 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, begins 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 recipient's computer. Typically the person/entity 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 delivered to the recipient's email, notifying him/her of the file and its 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 retrieved 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-configure a streamlined device at 4010, in this case the information is constrained to what is provided 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 be 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  
5 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  
10 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  
15 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  
20 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  
25 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  
30 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.

- 5 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:
- 5 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
- 10 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
- 15 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.
- 20
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.
- 25
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.
- 30

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:

- 5                   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  
10     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.  
15

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.  
20

**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.

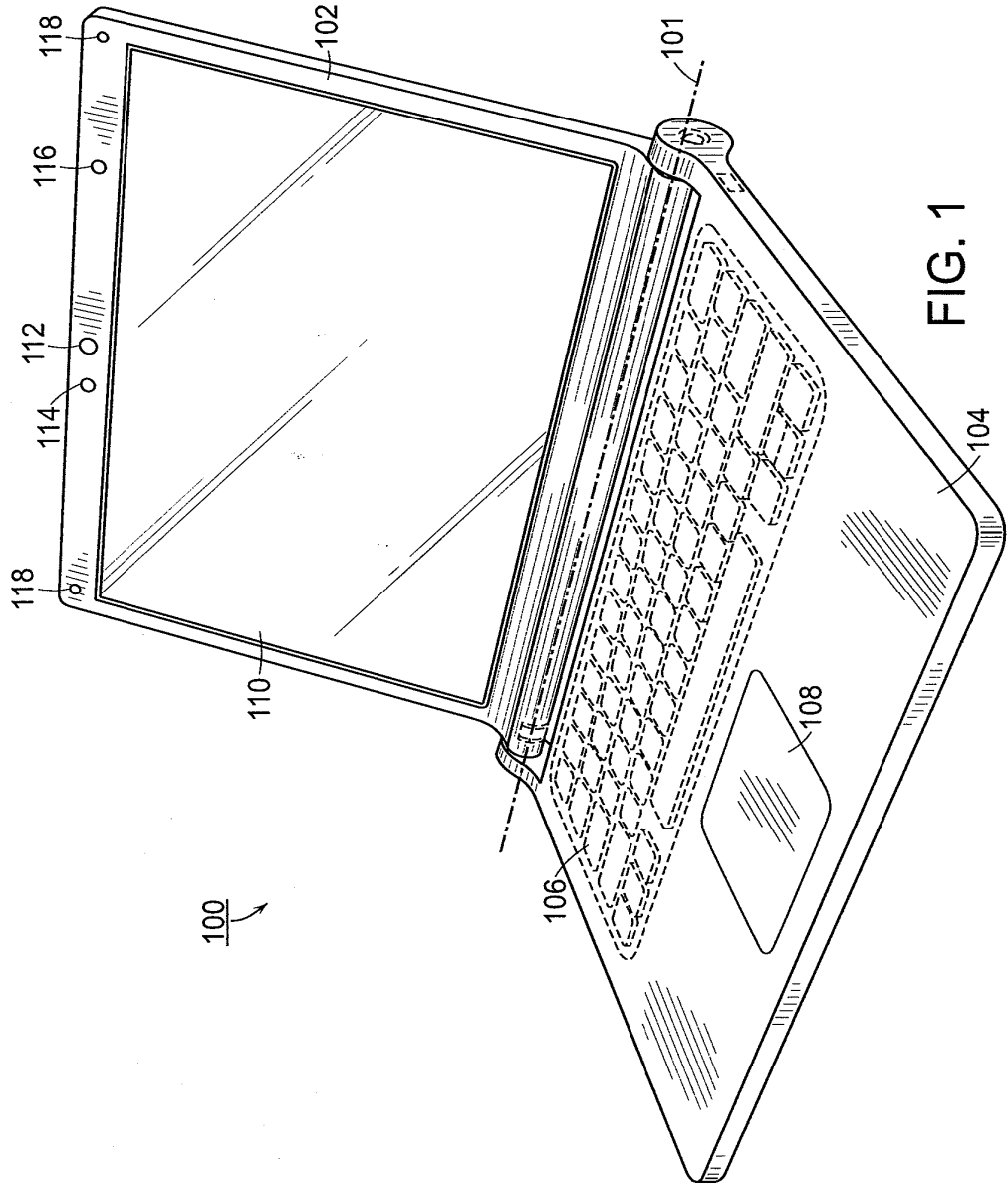


FIG. 1

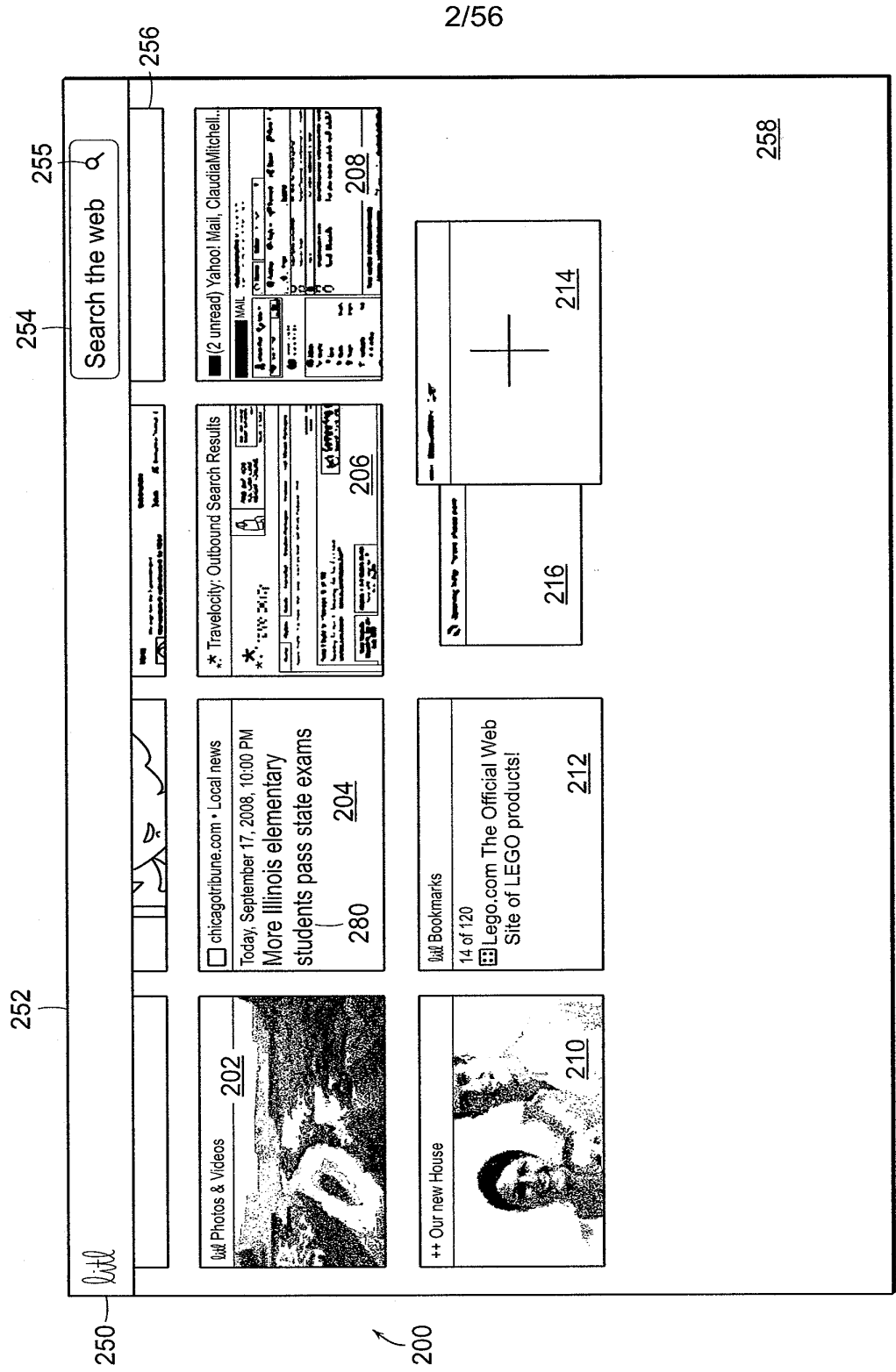


FIG. 2







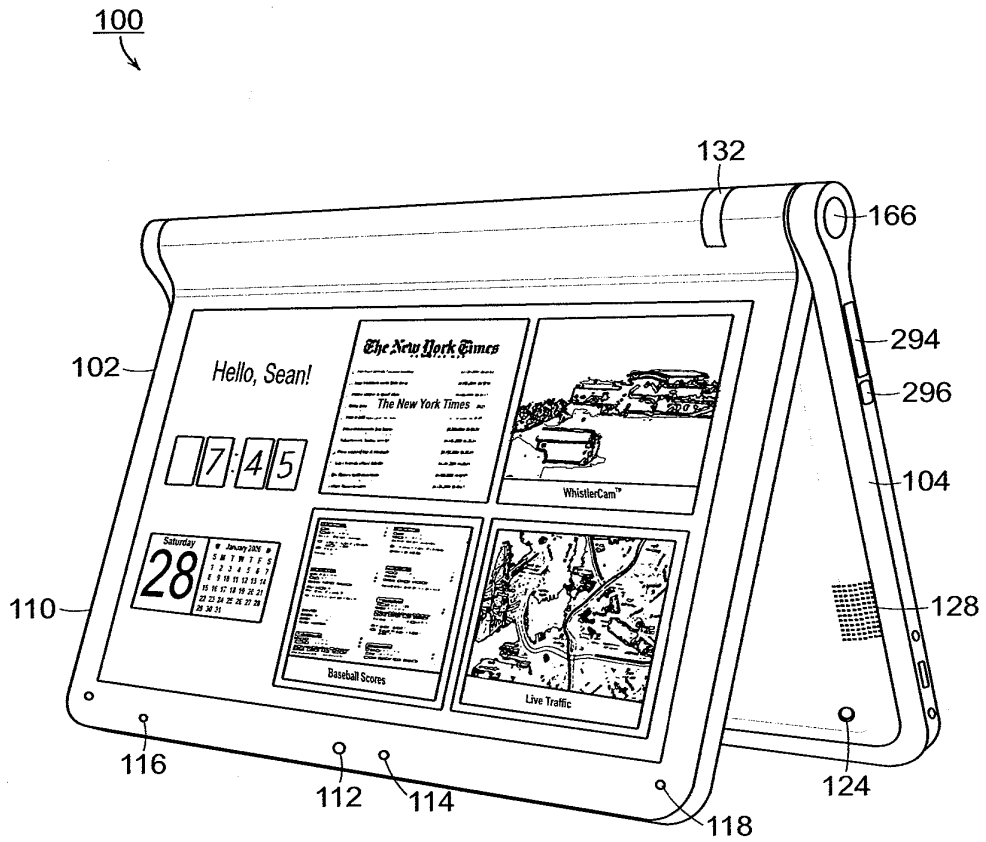


FIG. 4



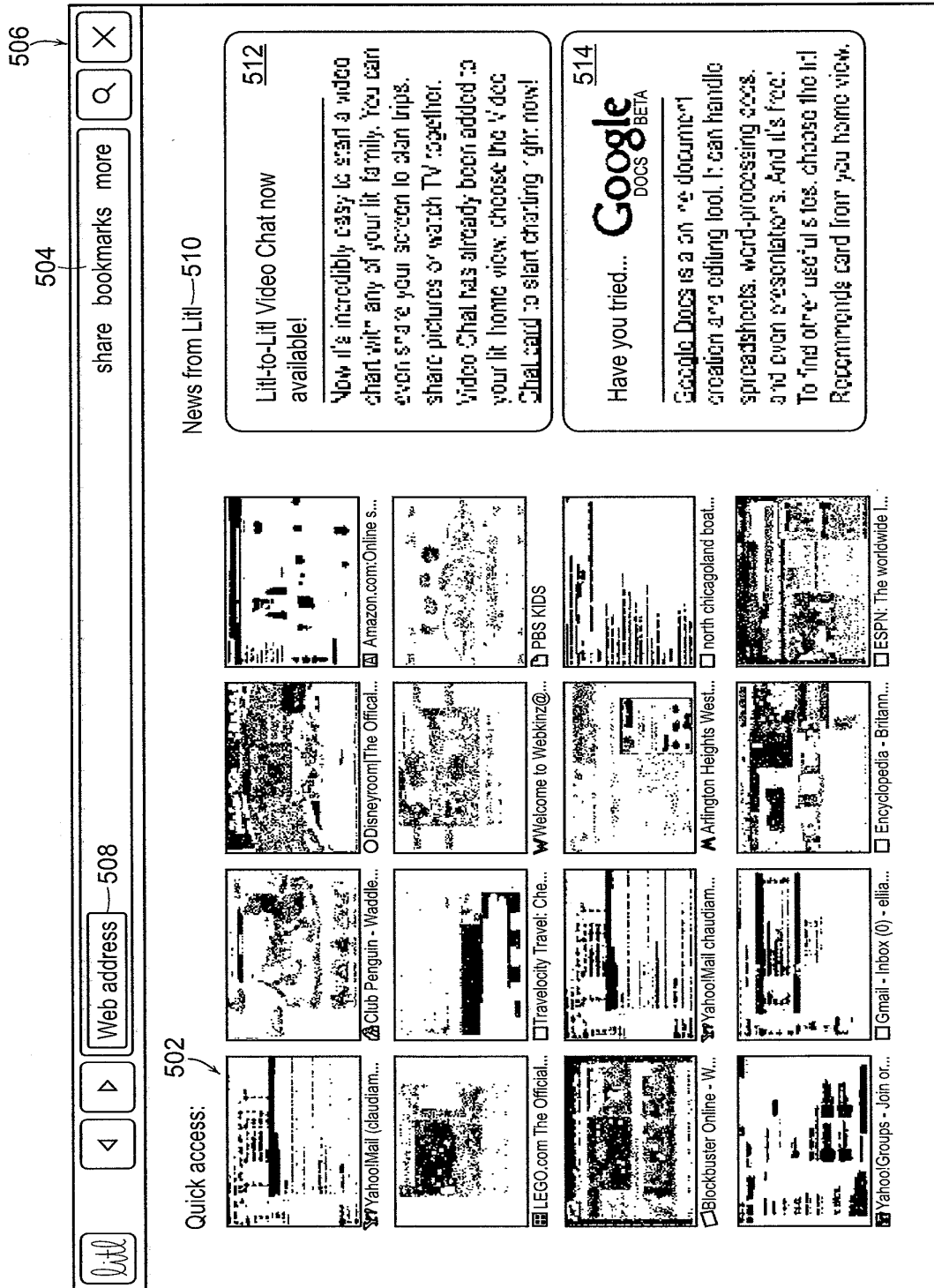


FIG. 5

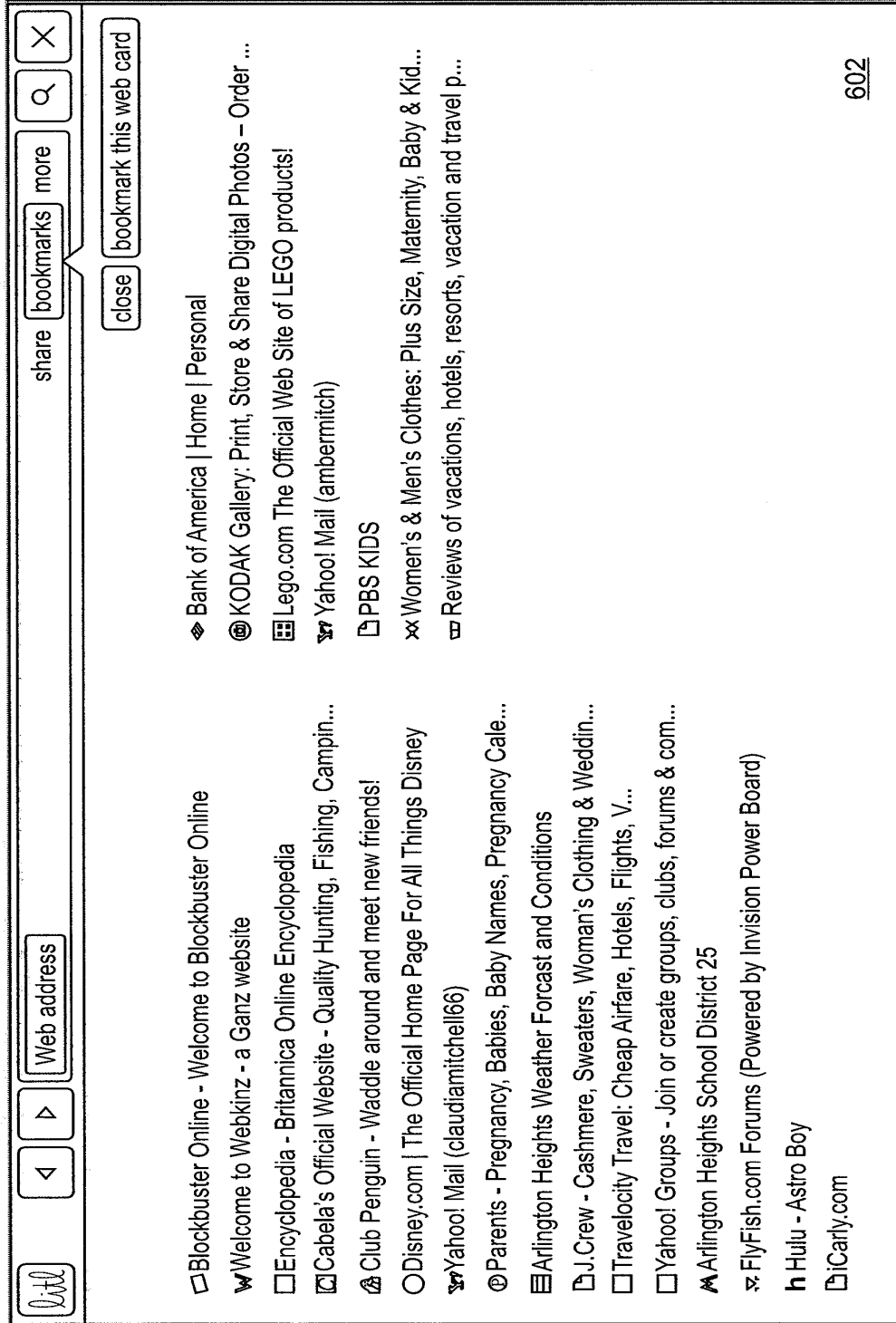


FIG. 6





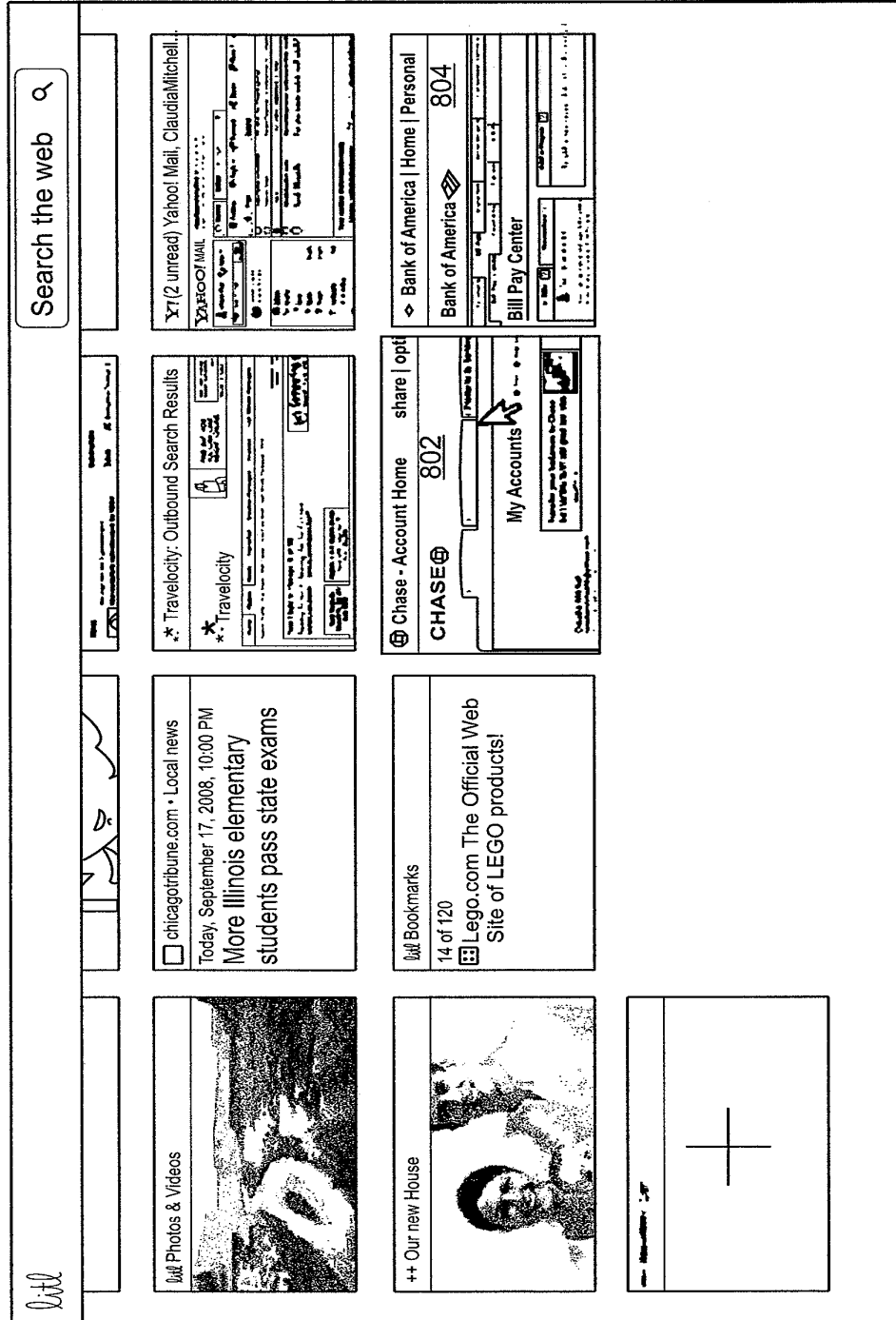


FIG. 8

800

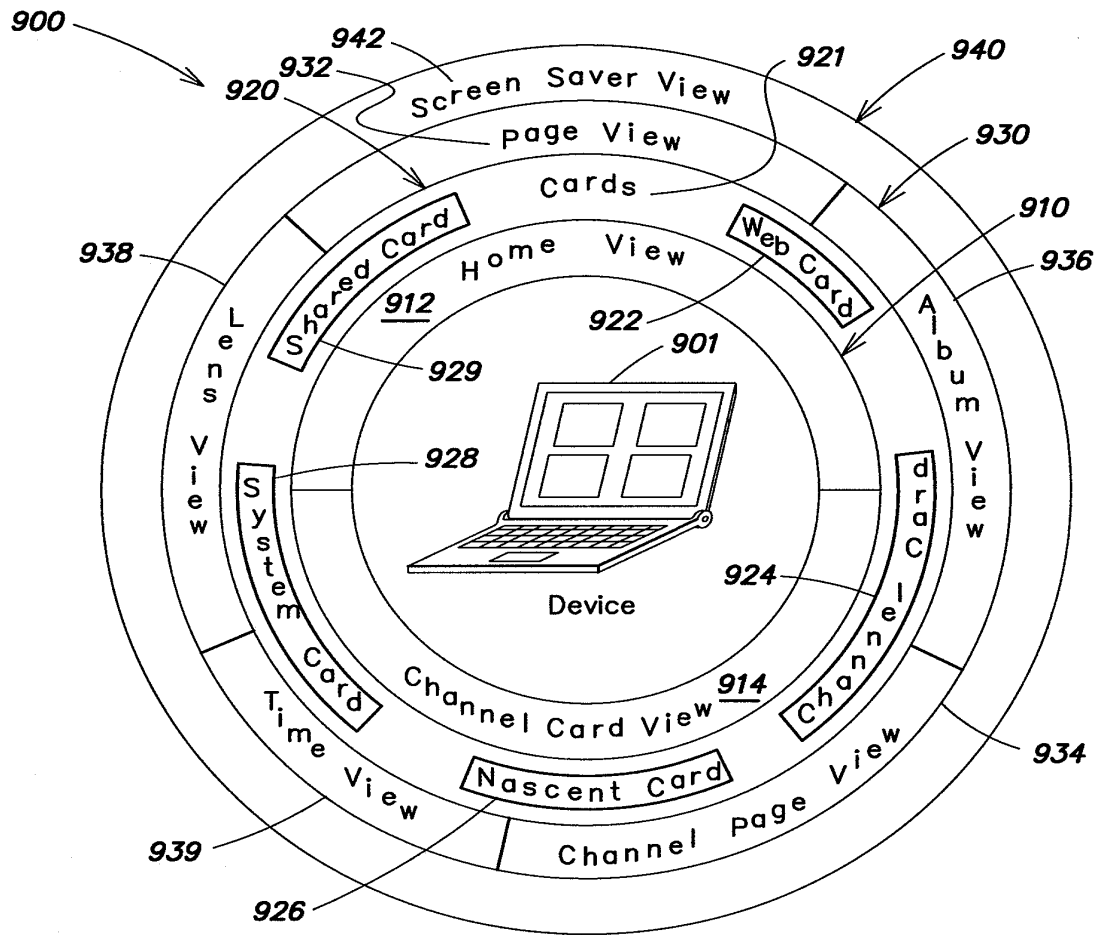


FIG. 9

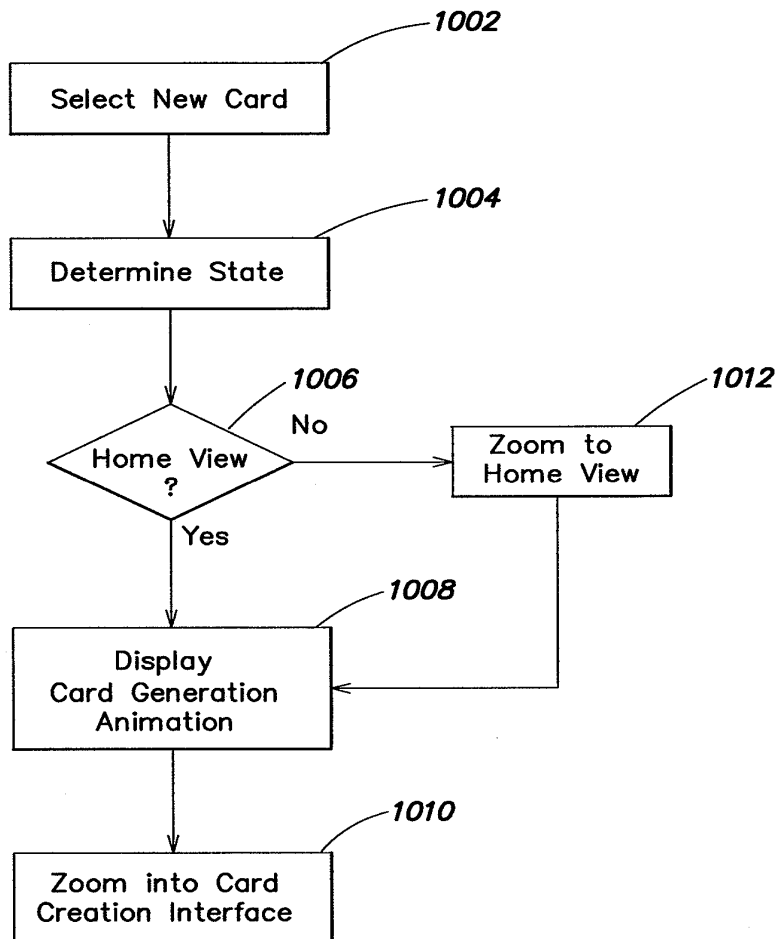


FIG. 10

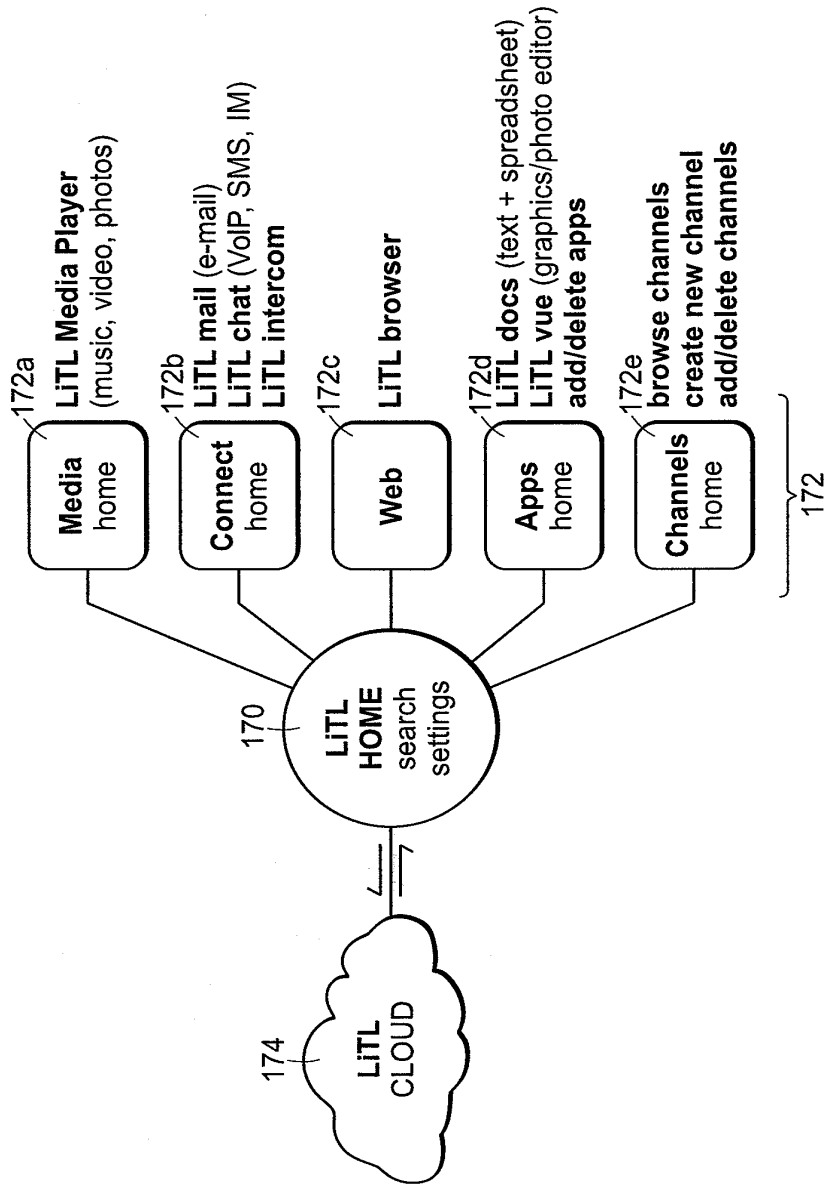


FIG. 11



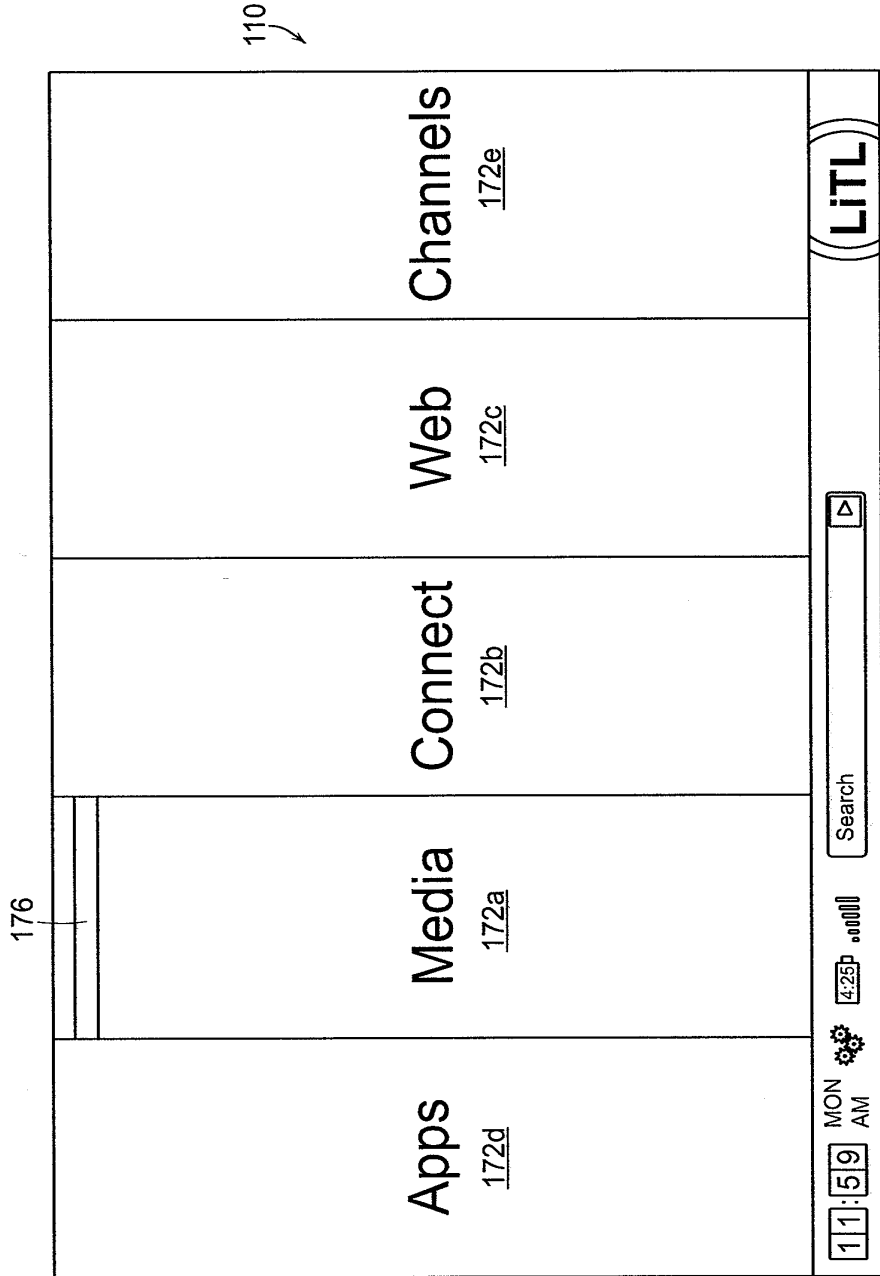


FIG. 12



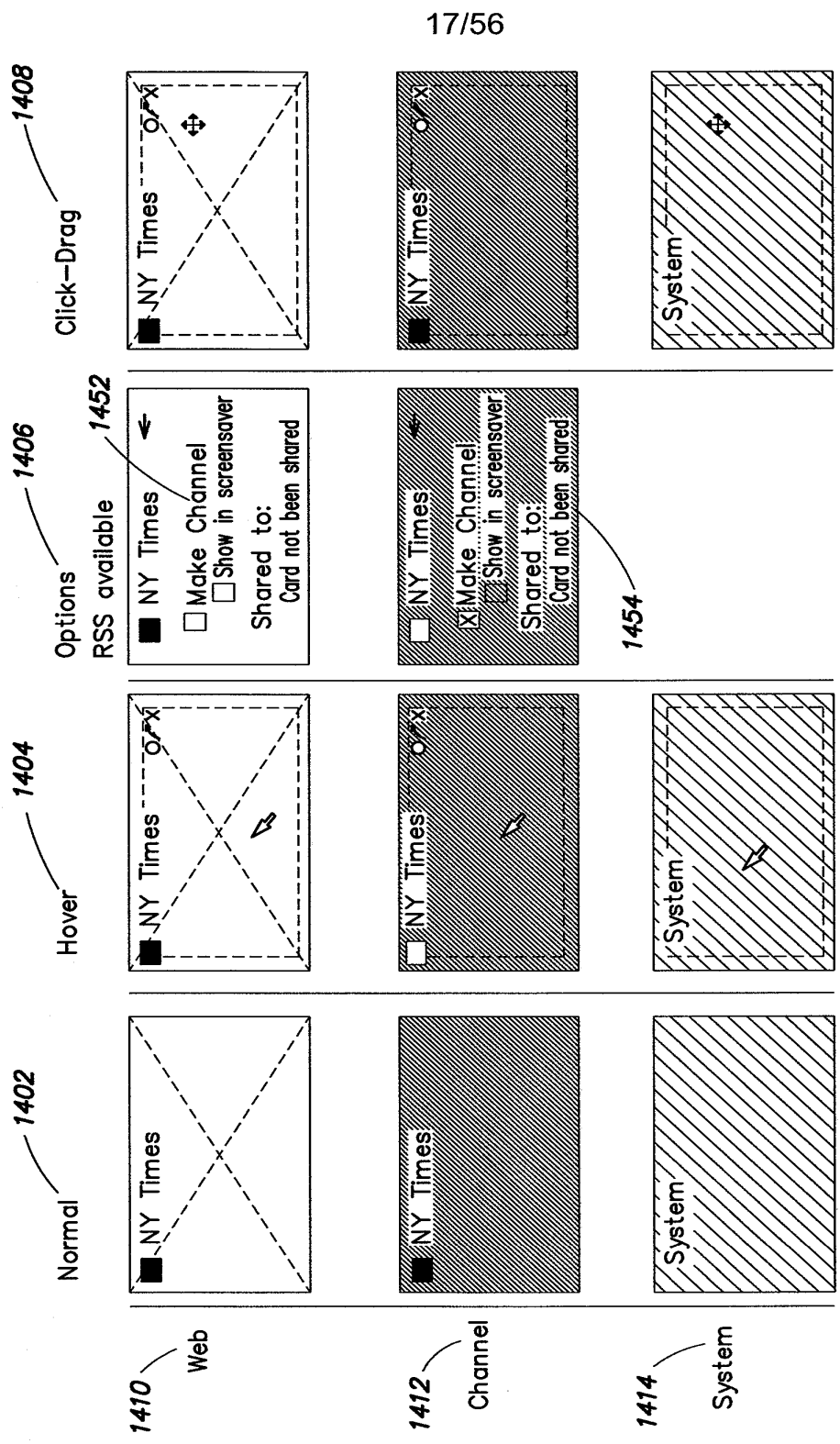


FIG. 14

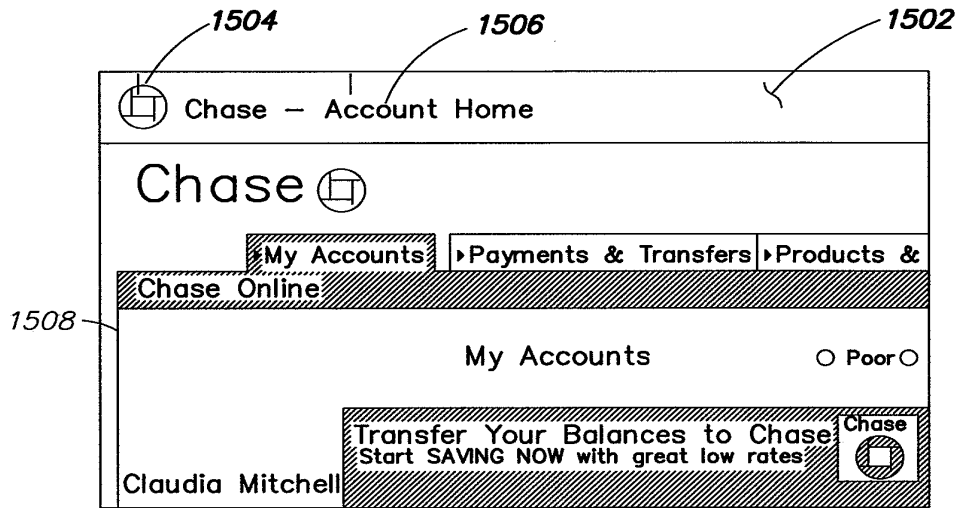


FIG. 15A

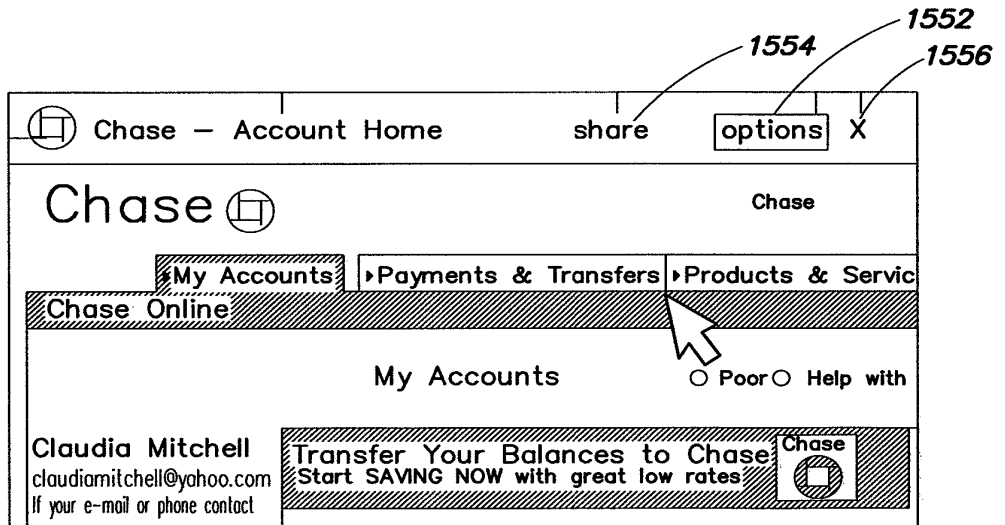


FIG. 15B

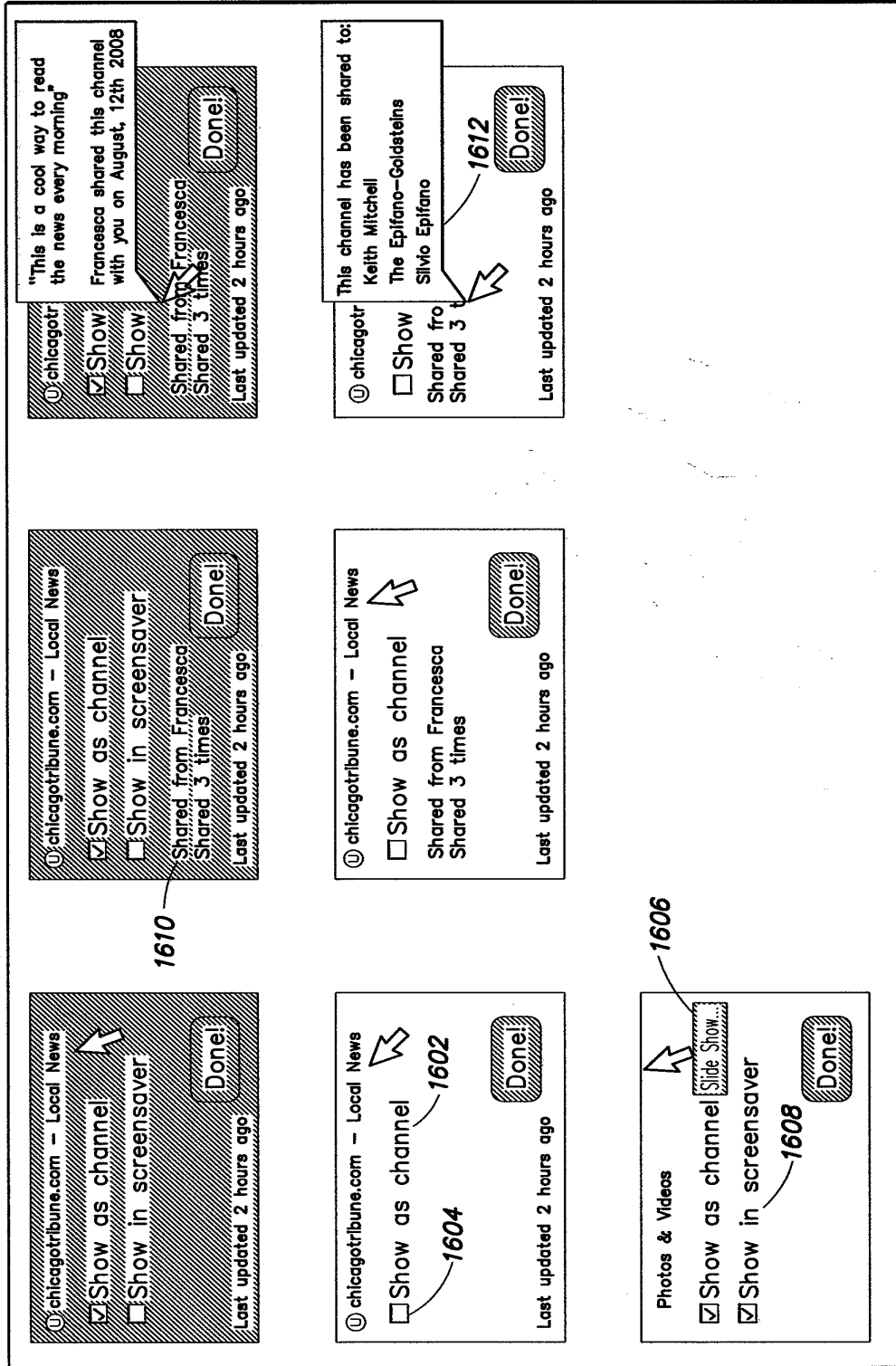


FIG. 16

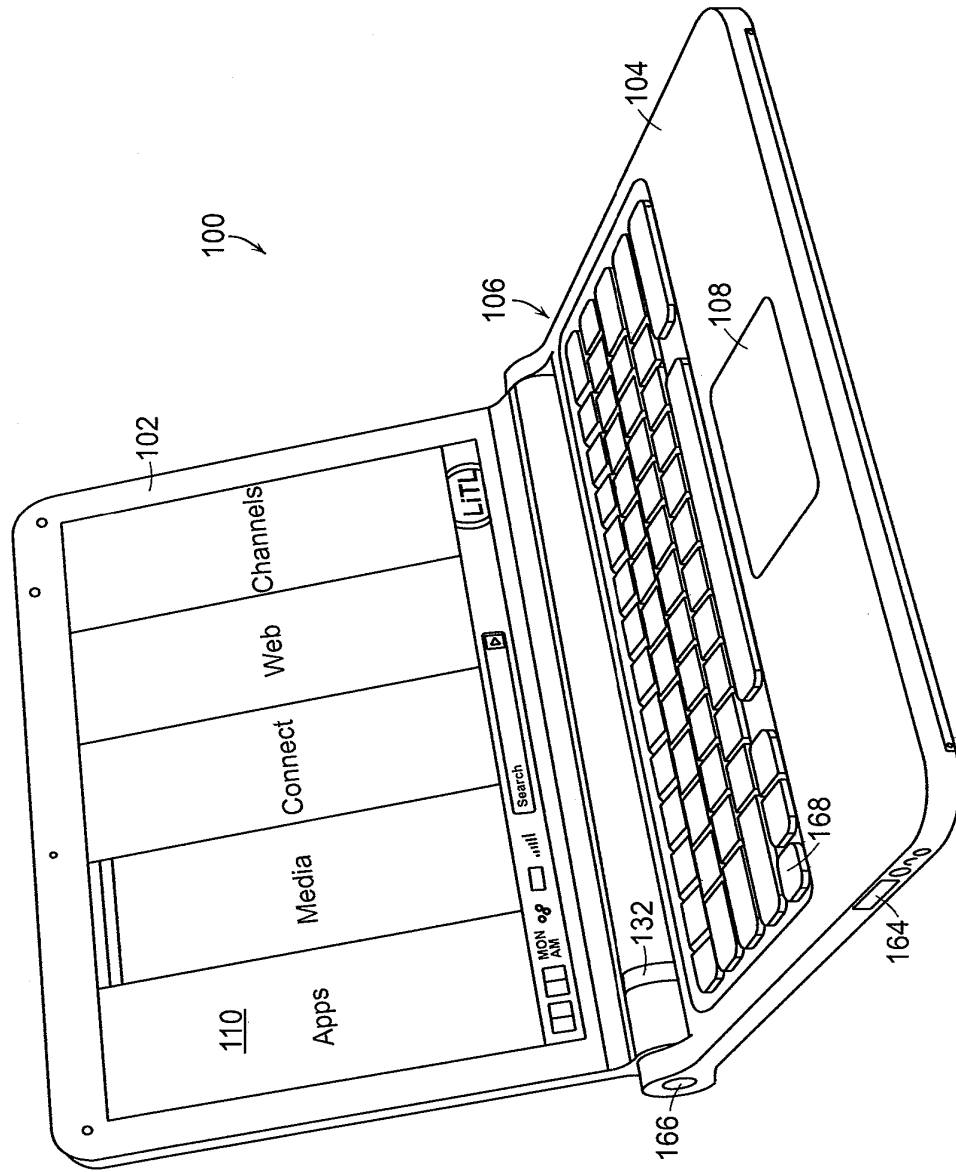


FIG. 17

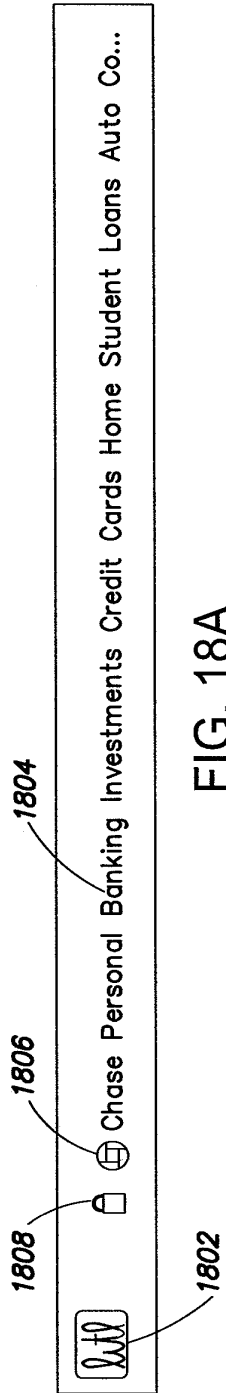


FIG. 18A

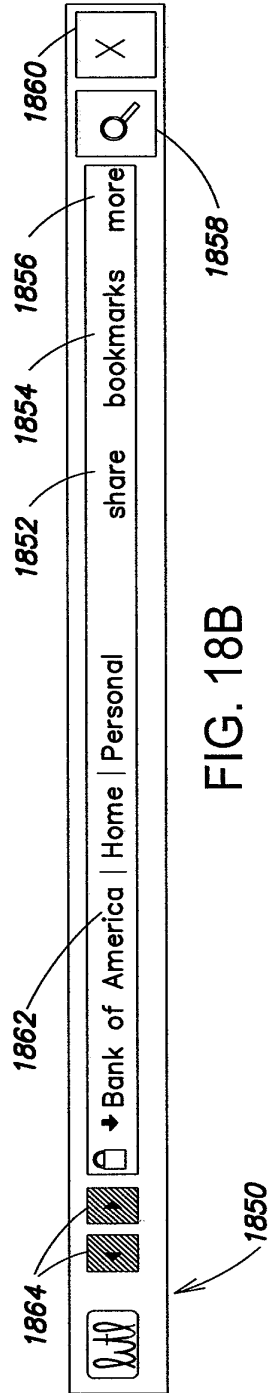


FIG. 18B

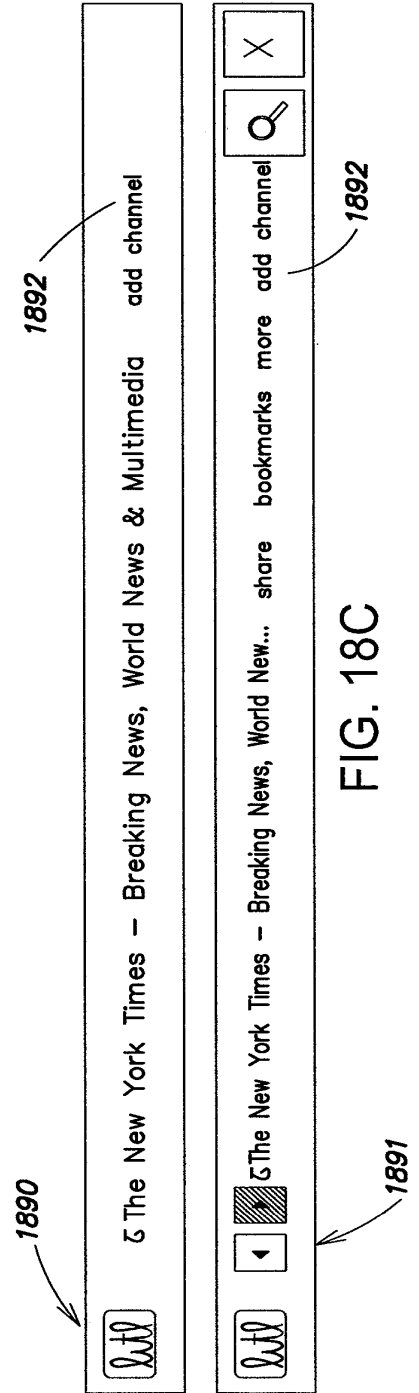


FIG. 18C



FIG. 18D

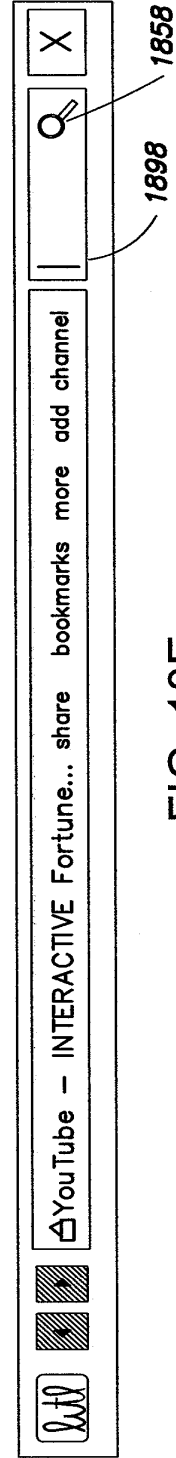



FIG. 18E





2012   chicagotribune.com - Local news

2006 share go to web page

2010

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21 ARTICLES FOUND last updated Today 9:33pm

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Today 9:30 PM  
 Supreme Court Poised to Enter Pre-Empion 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  
 A New McCain on the Campaign Trail  
 By ADAM MAGOURNEY - Senator John McCain's once easy going if insouciant campaign presence - endearing to crowds, though often resulting in jetties - has been put out to pasture. Read more...




---

Today 9:25 PM  
 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  
 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

2014

FIG. 20A

2000





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
- Sabela's Official Website - Quality Hunting Fishing, Camer...
- Club Penguin - Waddle around and meet new friends!
- Disney.com | The Official Home Page For All Things Disney
- Yahoo! Mail (a.diamlere@j)
- Parents - Pregnancy, Babies, Baby Names, Pregnancy Calc...
- Arlington Heights Weather Forecast and Conditions
- J.Crew - Cashmere, Sweaters, Woman's Clothing & Weadin...
- Travelocity Travel: Cheap Airfare, Hotels, Flights, Vac...
- Yahoo! Groups - Join or create groups, clubs, forums & com...
- Arlington Heights School District 25
- Fly Fish.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 (ambornitch)
- 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
- Sabela'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 (a.diamlere@j)
- Parents - Pregnancy, Babies, Baby Names, Pregnancy Calc...
- Arlington Heights Weather Forecast and Conditions

FIG. 22



FIG. 23

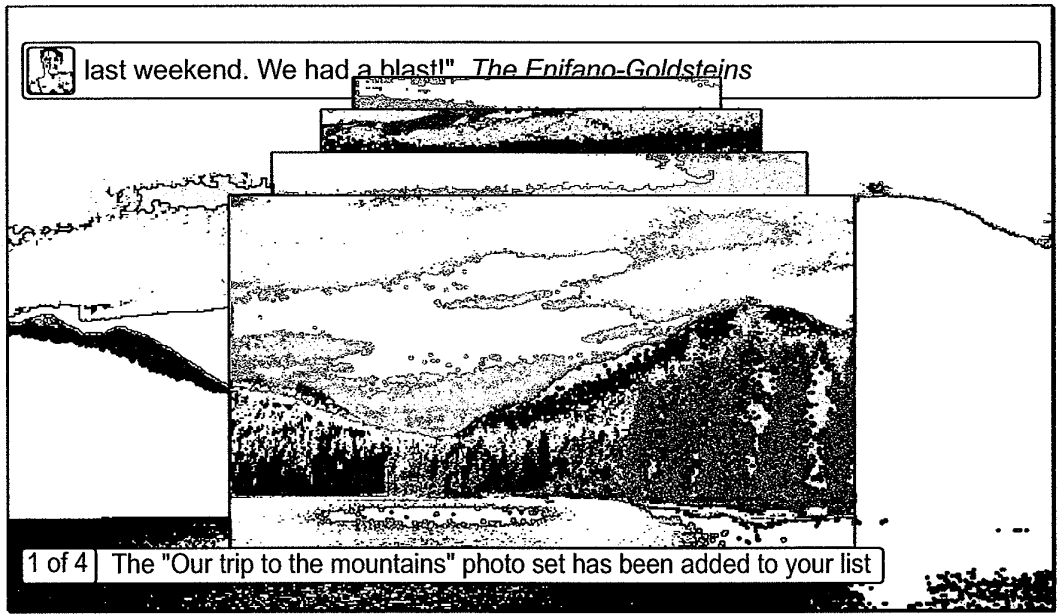


FIG. 24

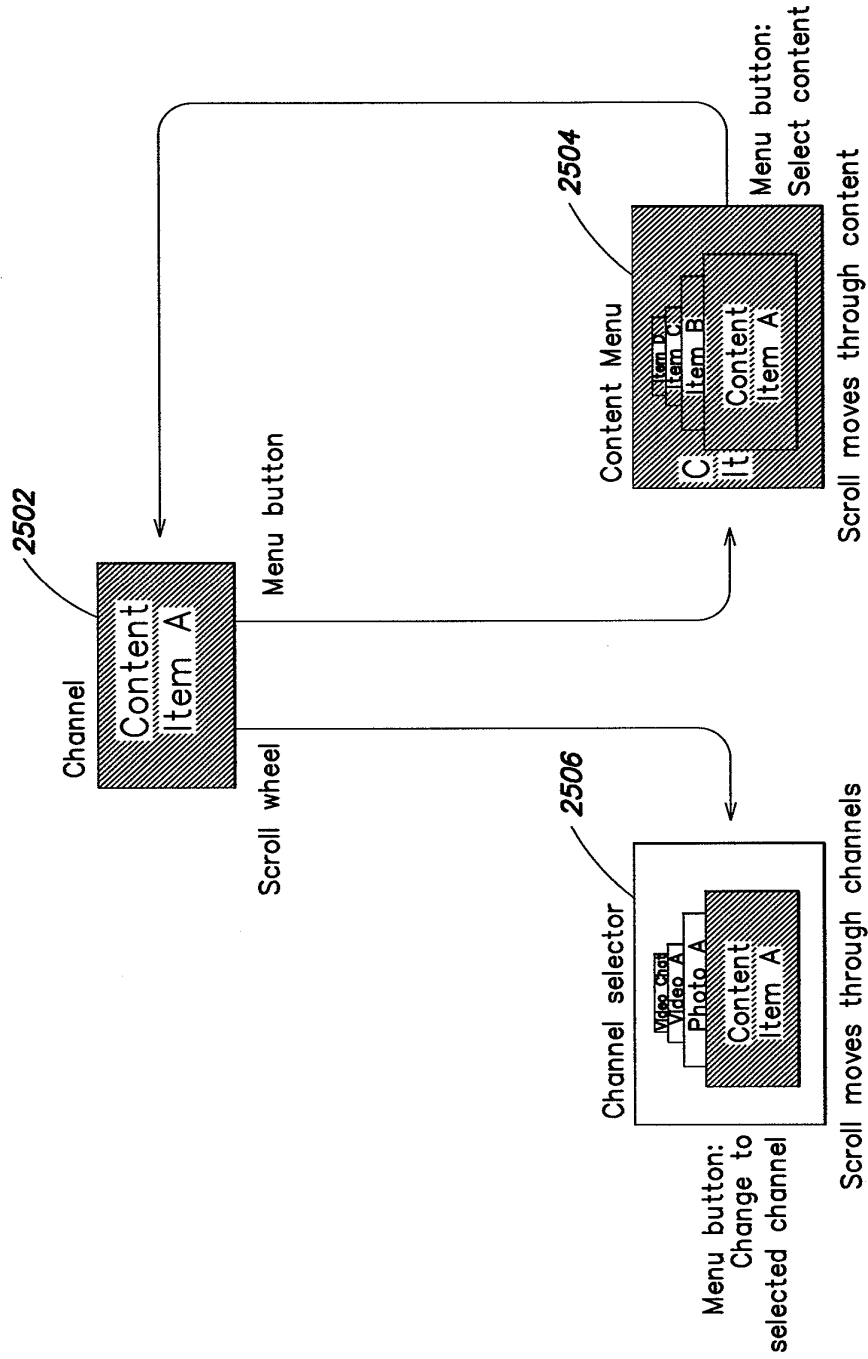


FIG. 25A



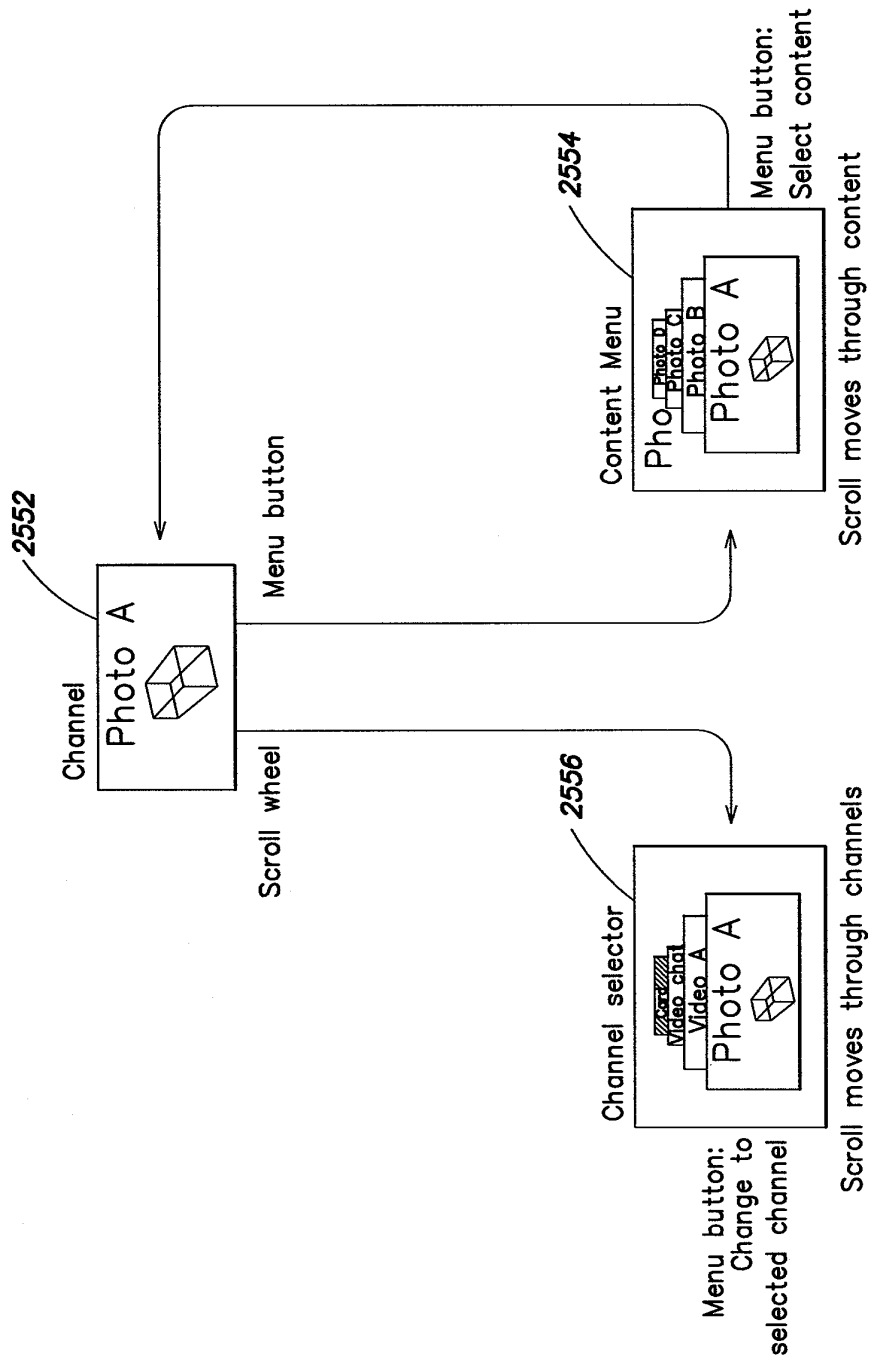


FIG. 25B

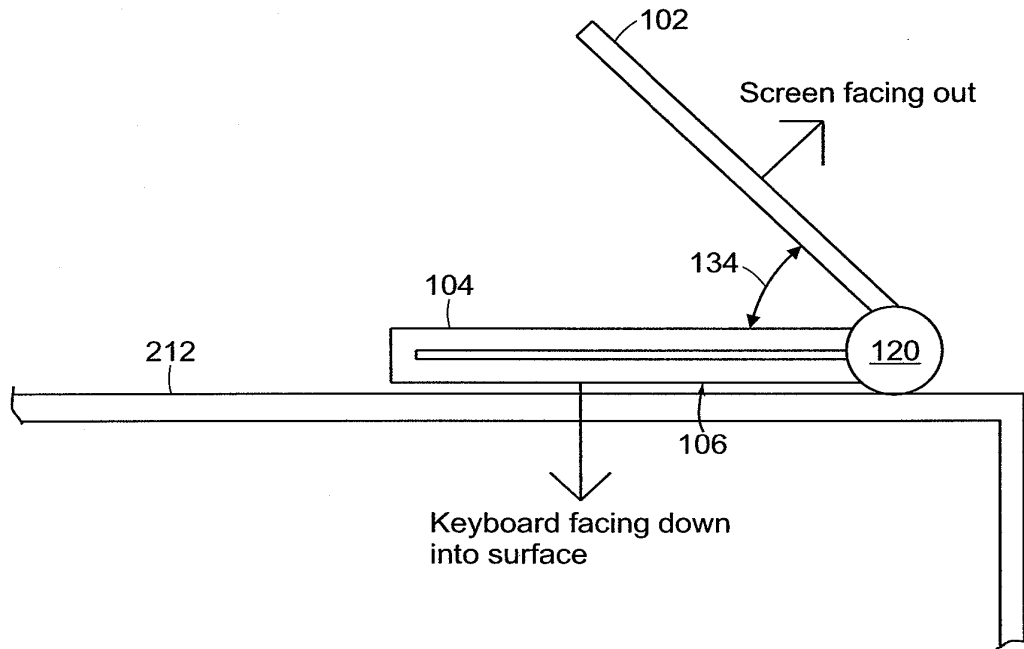


FIG. 26

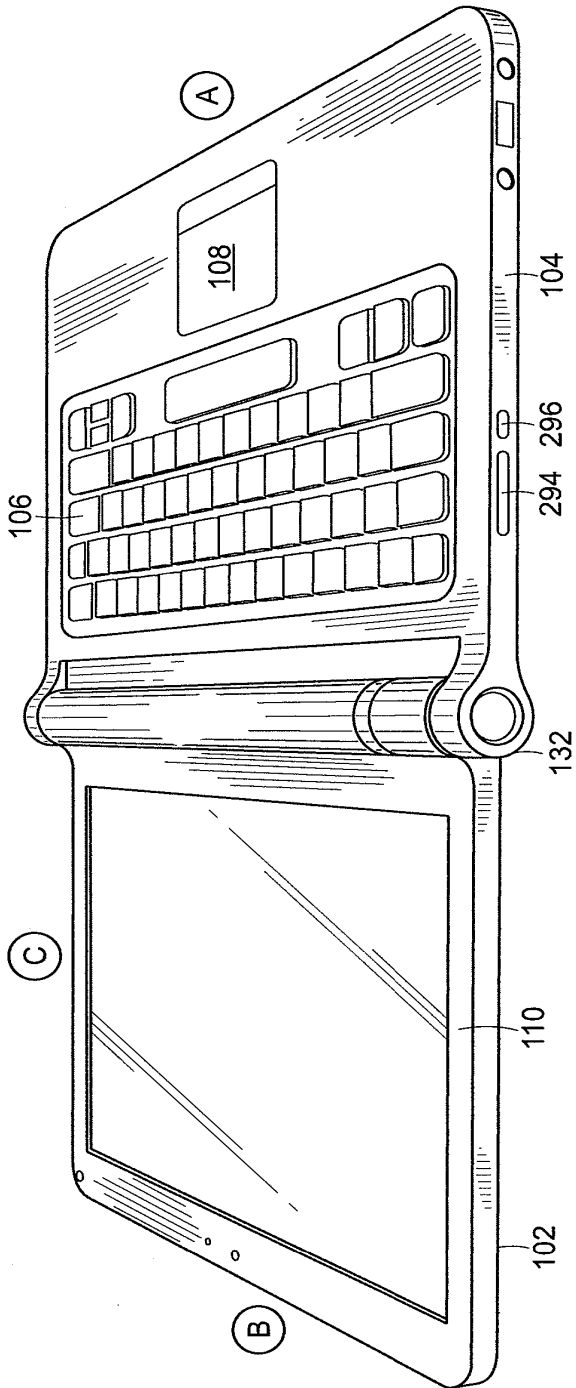


FIG. 27

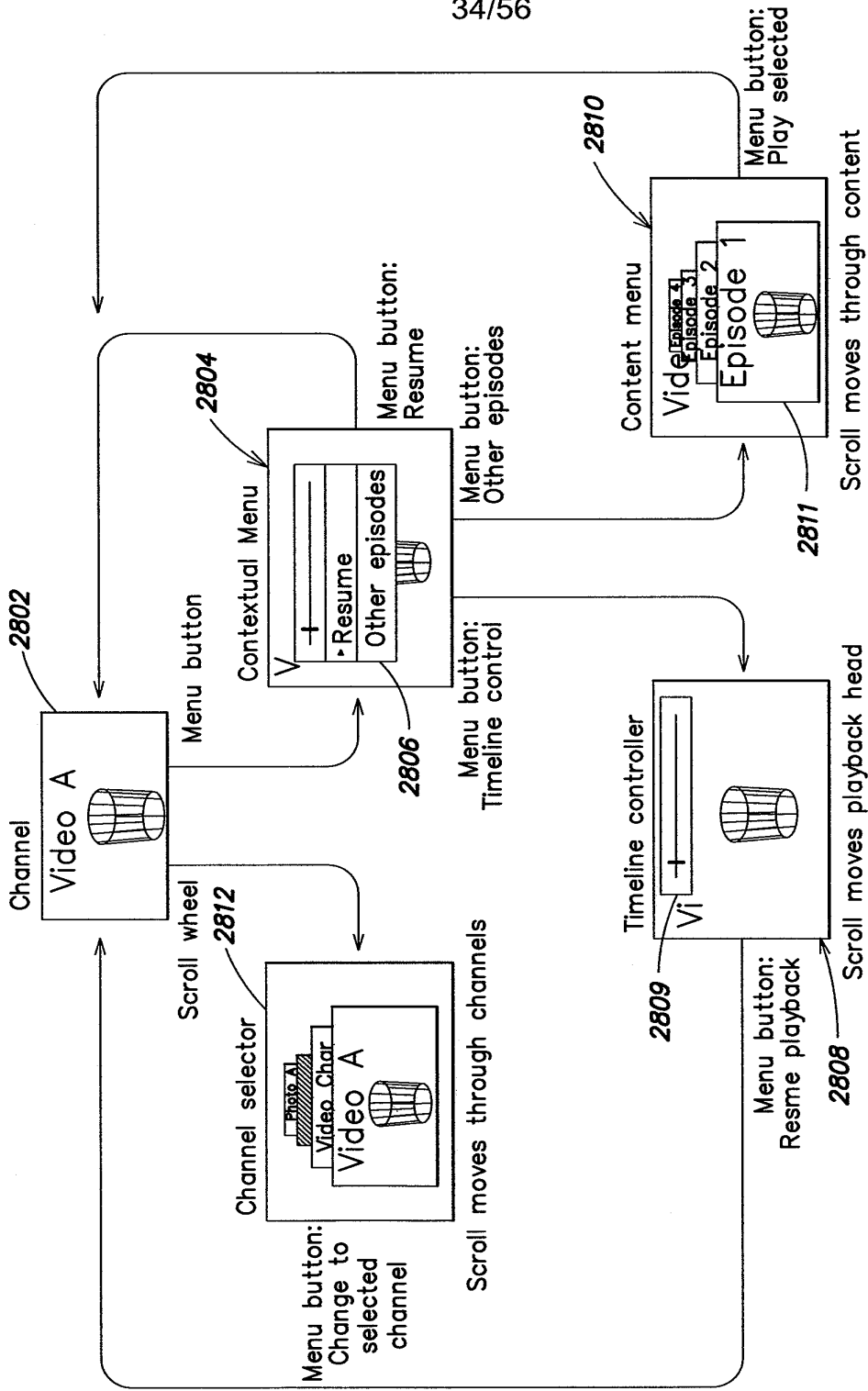


FIG. 28

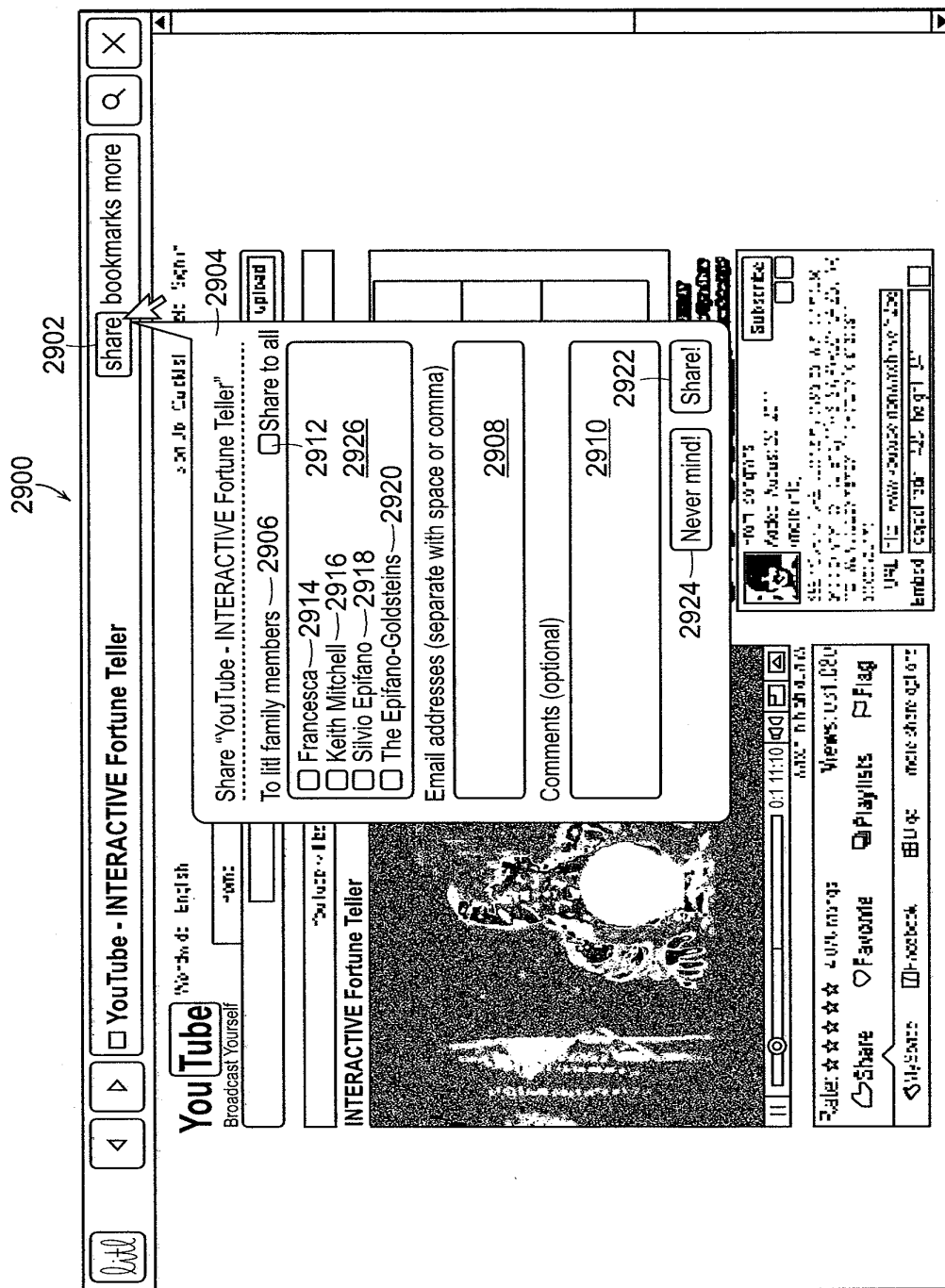


FIG. 29A

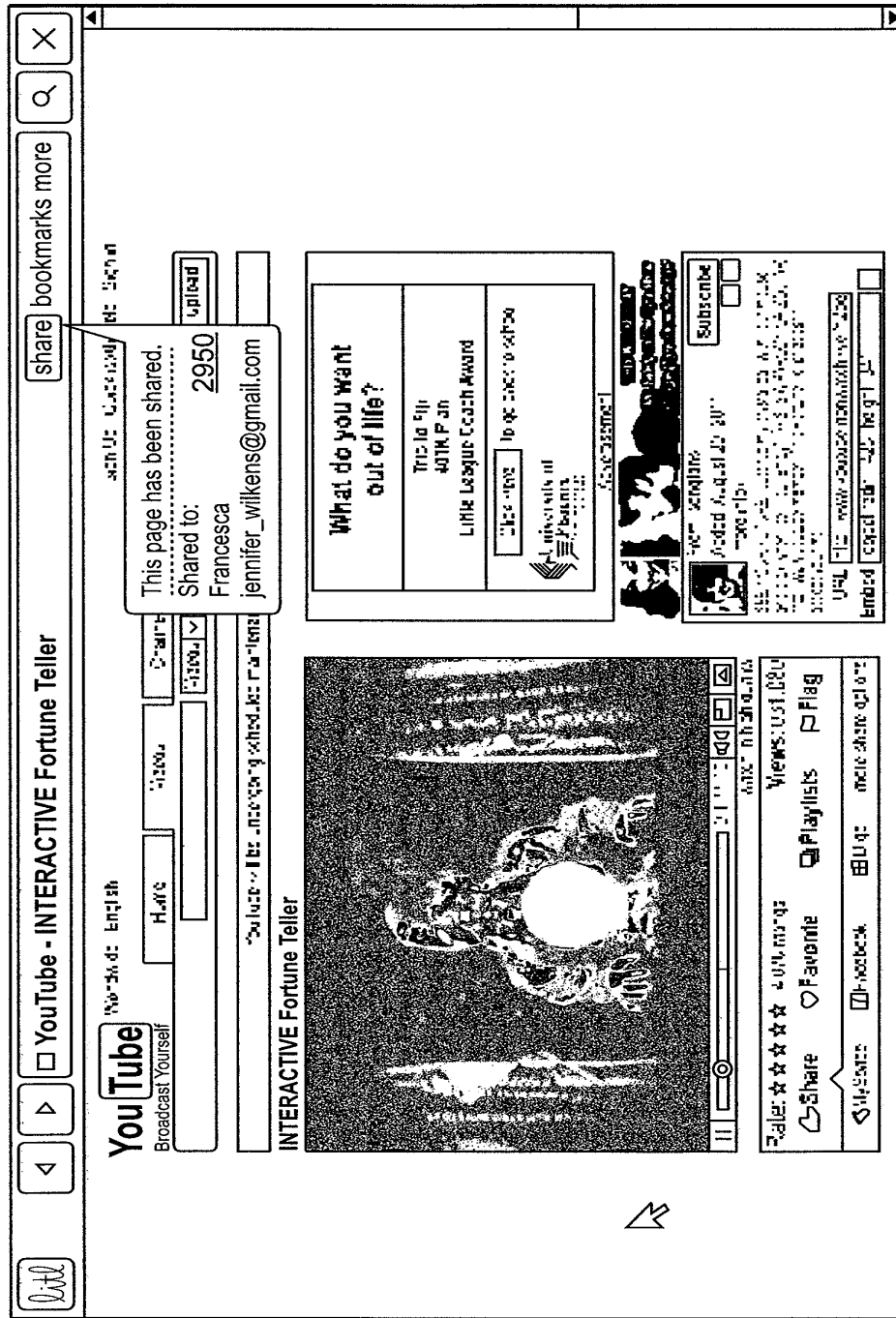


FIG. 29B

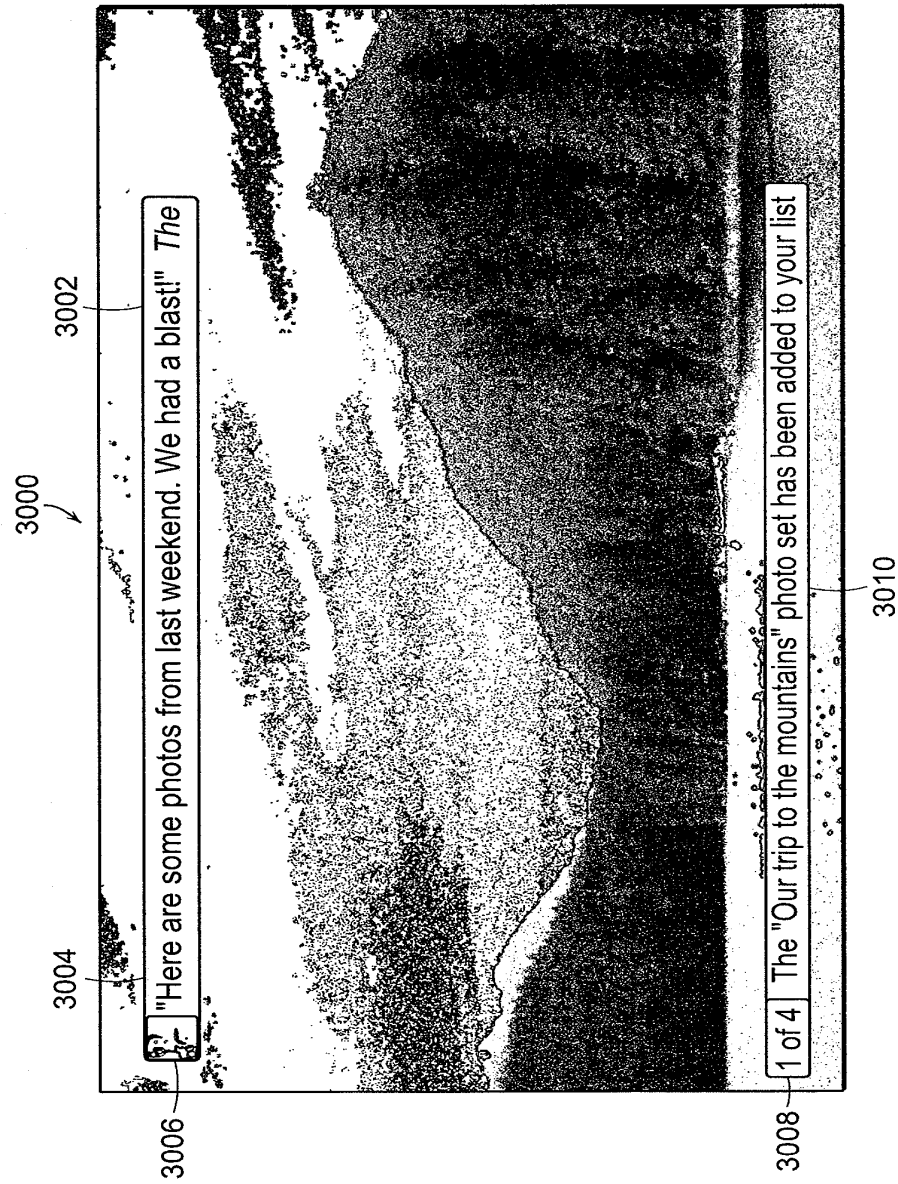


FIG. 30

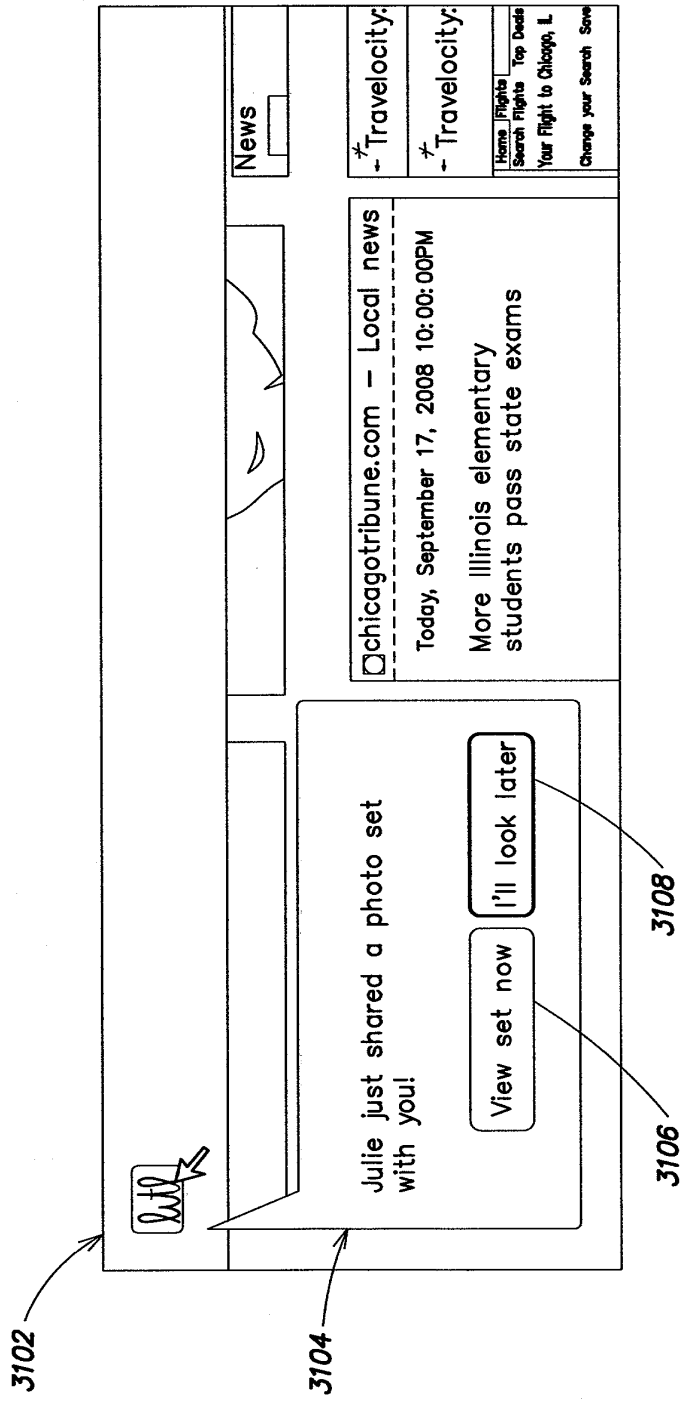


FIG. 31



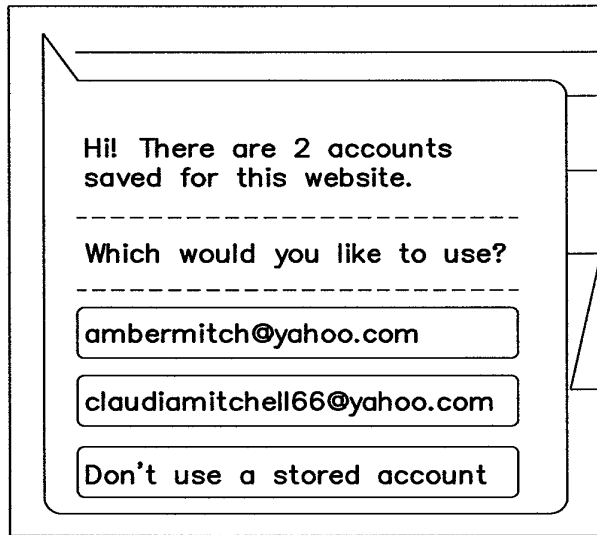


FIG. 32

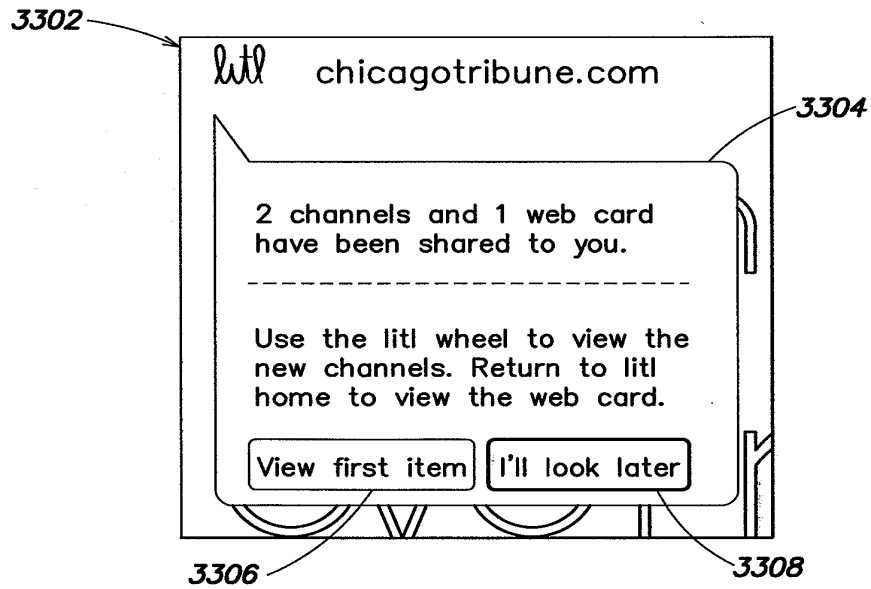


FIG. 33

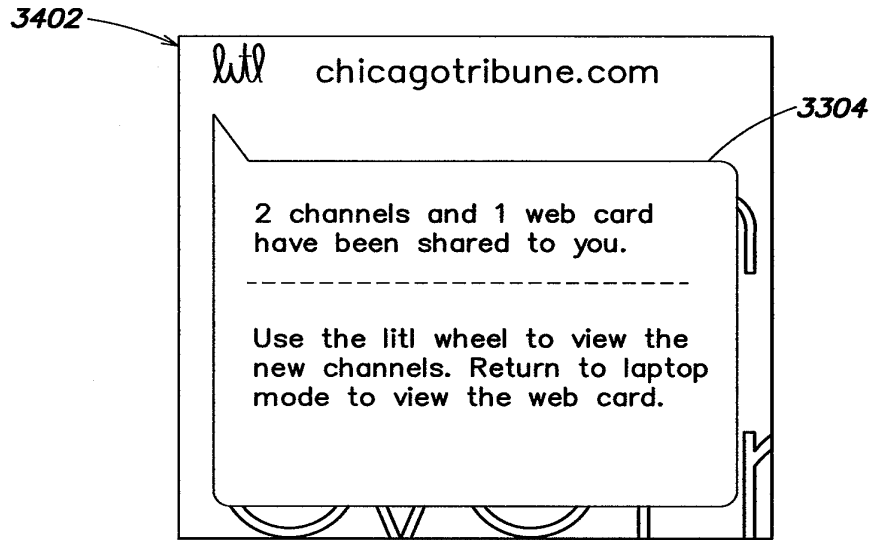


FIG. 34



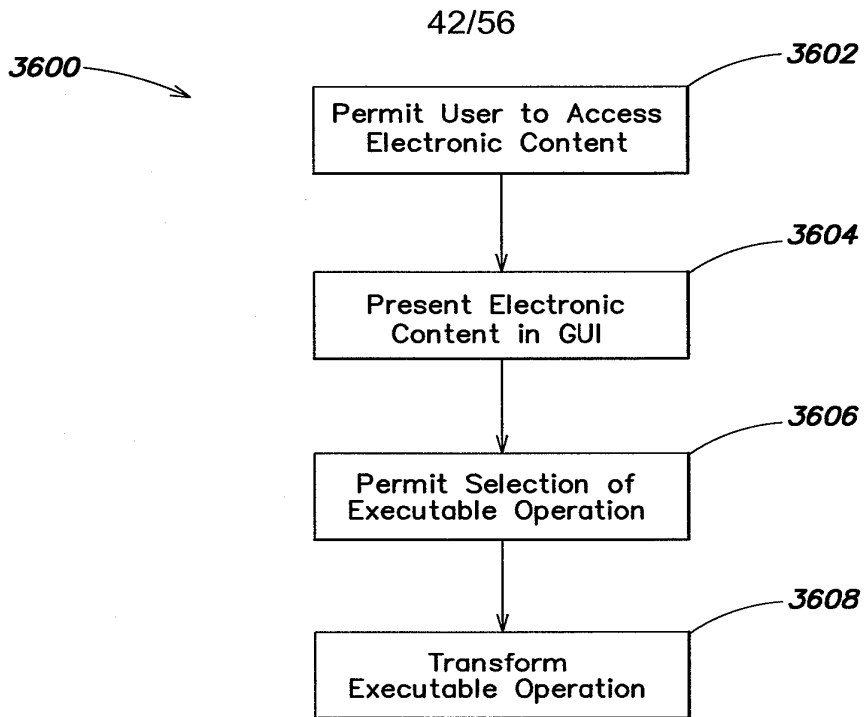


FIG. 36

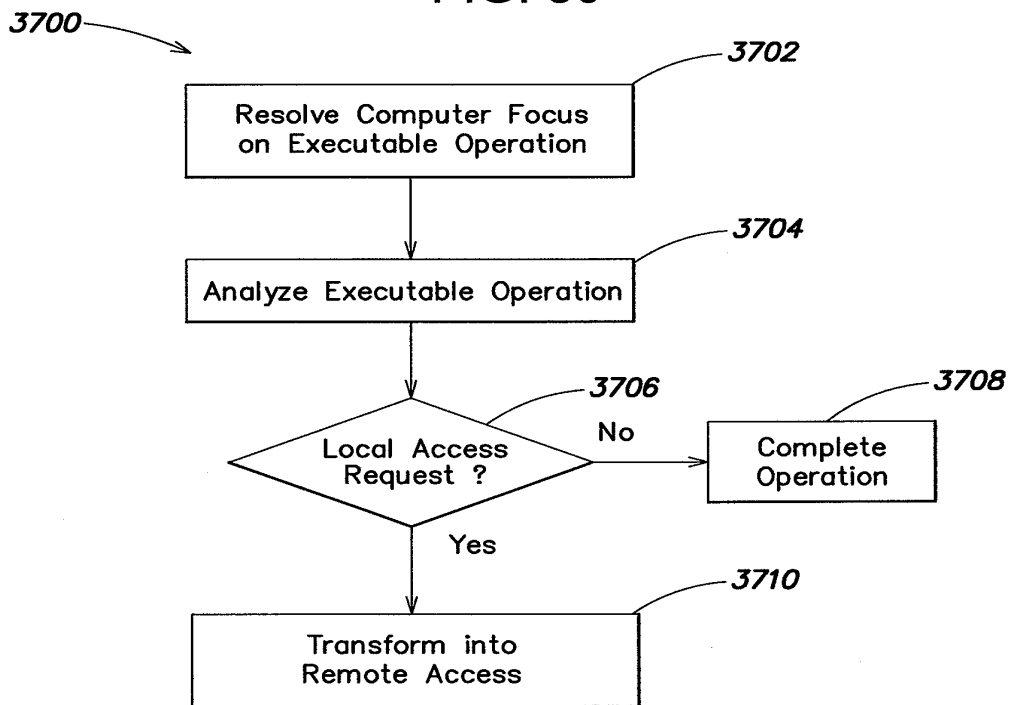


FIG. 37

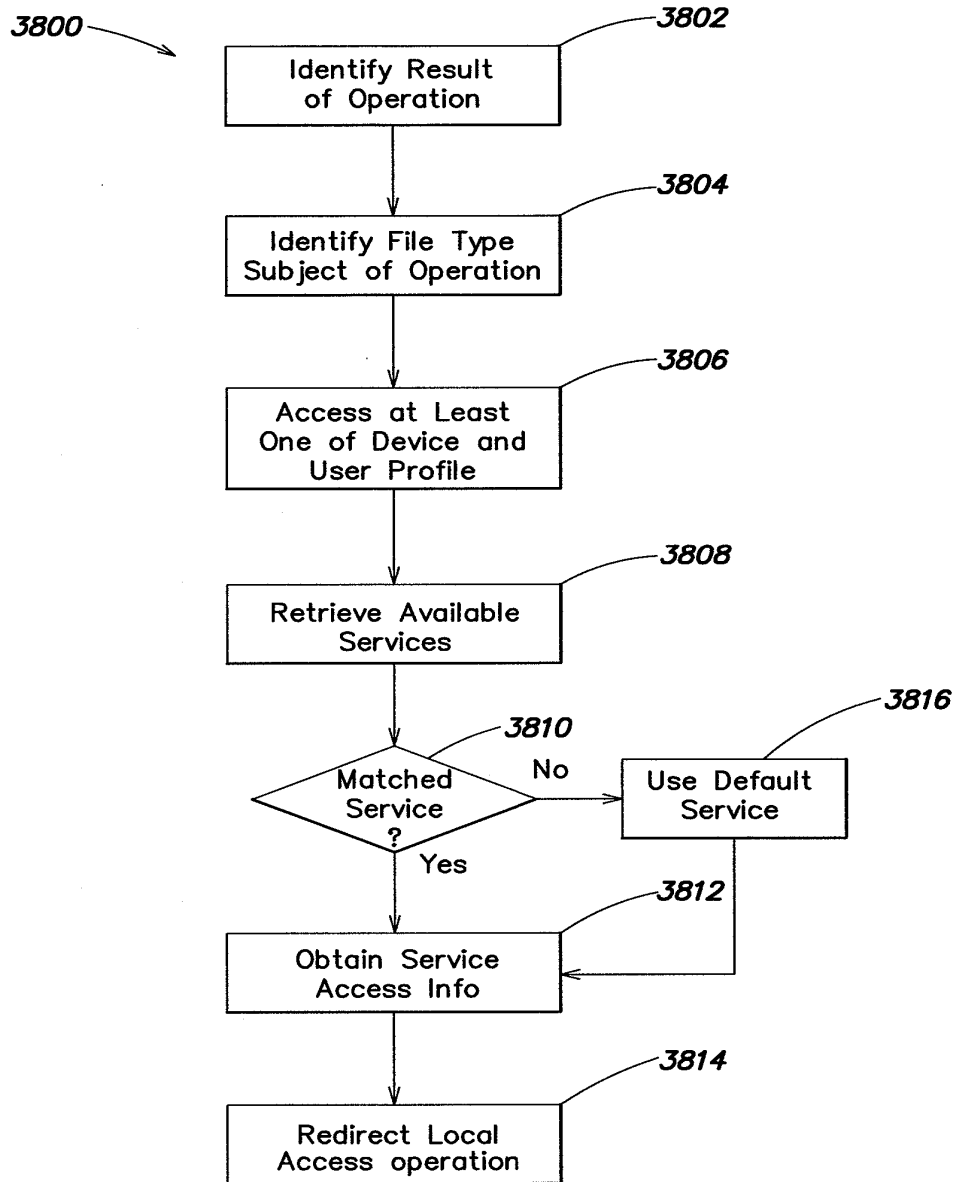


FIG. 38

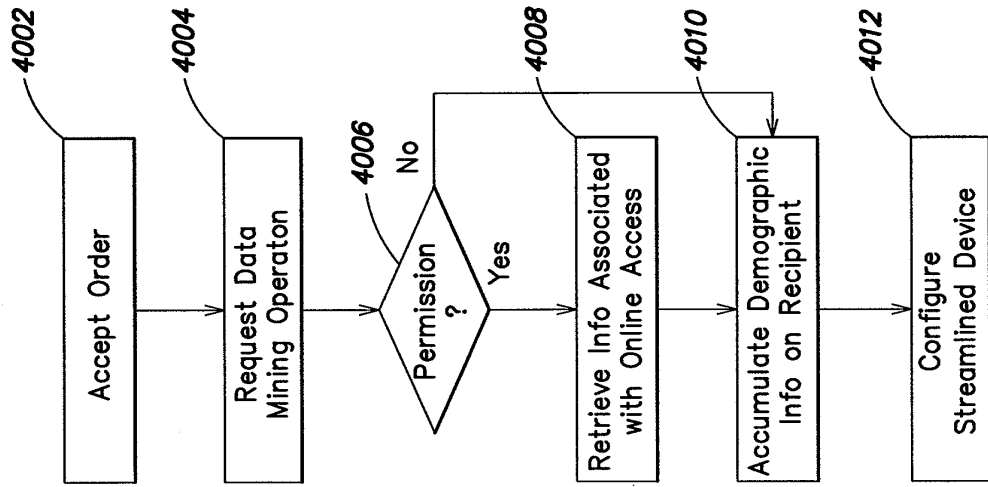


FIG. 40

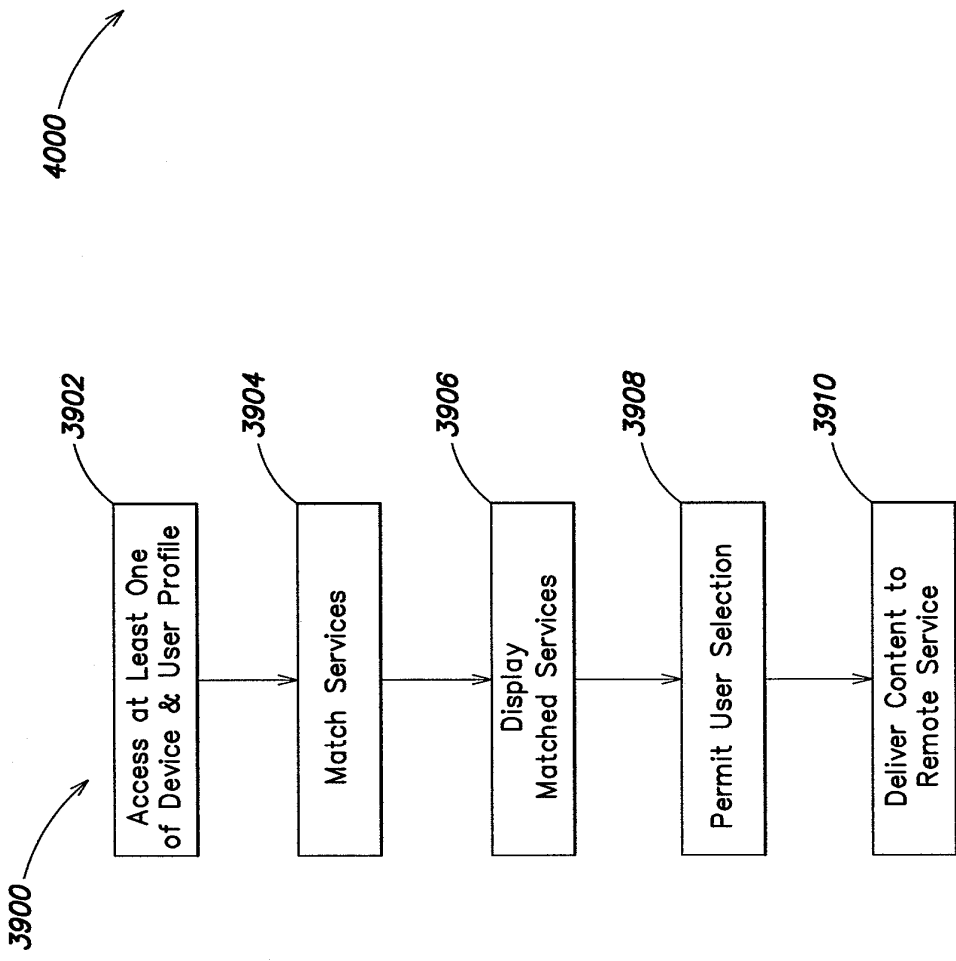


FIG. 39

Y1(2 unread) Yahoo! Mail, ClaudiaMitchell66

find in page next prev

YAHOO! MAIL Sign Out My Account Mail Check Mail Search Mail

Home Reply Forward Spam Move Print Mark folders View Delete Reply Forward Spam Move Print Mark folders View

From: Claudia Mitchell Date: 11/25/11 11:24 AM

To: My Smith

Subject: Your online statements ready

Content: Your online statements ready. To view the PDF file, click on the link below. If you have any questions, please contact our Customer Care team at 1-800-392-2744.

Your online statements ready

Check online statements ready <http://www.claudiamichele.com>

Check Security Claudia Mitchell

For your account ending in 8644

http://www.claudiamichele.com/secure/claudiamichele.html

Dear CLAUDIA MITCHELL,

Account 0000 0000 0000 0000 0000 0000

Your latest Online Care statements are now available online. For more credit information, go to [www.claudiamichele.com](http://www.claudiamichele.com).

This message is for in-branch purposes only.

Please understand that we cannot respond to individual messages through this email system. It is more secure and should not be used for credit card account related questions.

For questions about your credit card, please follow these steps:

1. Sign in to Account Online at [www.claudiamichele.com](http://www.claudiamichele.com)
2. Go to the Help Contact Us menu and select Contact Us.
3. Under the heading Write to Customer Care, select the Send New Message link.

After you have submitted your message, check this response within 4 weeks. We will contact you with the response.

Enjoy Always,  
Your Yahoo! Mail

Check your credit card statements

4102

To save trees, your lift does not support printing. Instead, a PDF file of this page can be emailed, or saved to a web-based storage service.

- Amber Mitchell (ambermitch@yahoo.com) 4104
- Claudia Mitchell (claudiamitchell66@yahoo.com)
- Elliot Mitchell (elliott.mitchell@gmail.com)
- Elliot Mitchell (emitchell@insuranceco.com)
- Francesca Epifano (Francescaepi@yahoo.com)
- Julie Epifano-Goldstein (juliekitten@hotmail.com)

Storage services

- DropBox (elliott.mitchell@gmail.com) 4106
- DropBox (claudiamitchell66@yahoo.com)
- Google Docs (elliott.mitchell@gmail.com)

Email addresses (separate with space or comma)

4108

4110

4112

Send!

Never mind!

FIG. 41A

Yo Yahoo! | My Yahoo!

To save trees, your liti does not support printing. Instead, a PDF file of this page can be emailed, or saved to a web-based storage service.

To liti family members

- Amber Mitchell** (ambermitch@yahoo.com)
- Claudia Mitchell** (claudiamitchell66@yahoo.com)
- Elliot Mitchell** (elliott.mitchell@gmail.com)
- Elliot Mitchell** (emitchell@insuranceco.com)
- Francesca Epifano** (Francescaepi@yahoo.com)
- Julie Epifano-Goldstein** (juliekitten@hotmail.com)

Storage services

- DropBox** (elliott.mitchell@gmail.com)
- DropBox** (claudiamitchell66@yahoo.com)
- Google Docs** (elliott.mitchell@gmail.com)

Email addresses (separate with space or comma)

4150

Where would you like to send this file?

To liti family members

- Amber Mitchell** (ambermitch@yahoo.com)
- Claudia Mitchell** (claudiamitchell66@yahoo.com)
- Elliot Mitchell** (elliott.mitchell@gmail.com)
- Elliot Mitchell** (emitchell@insuranceco.com)
- Francesca Epifano** (Francescaepi@yahoo.com)
- Julie Epifano-Goldstein** (juliekitten@hotmail.com)

Storage services

- DropBox** (elliott.mitchell@gmail.com)
- DropBox** (claudiamitchell66@yahoo.com)
- Google Docs** (elliott.mitchell@gmail.com)

Email addresses (separate with space or comma)

4152

FIG. 41B



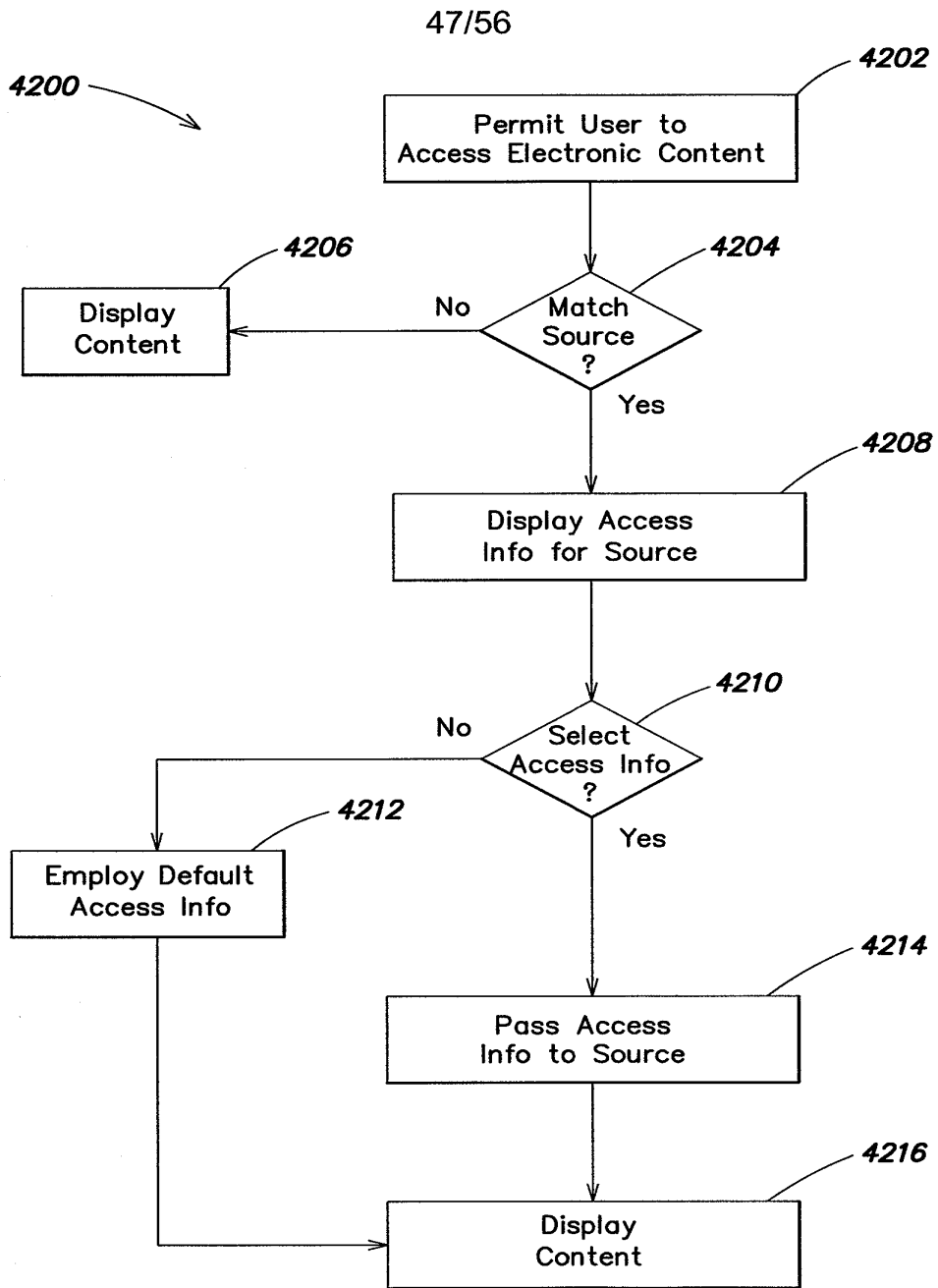


FIG. 42

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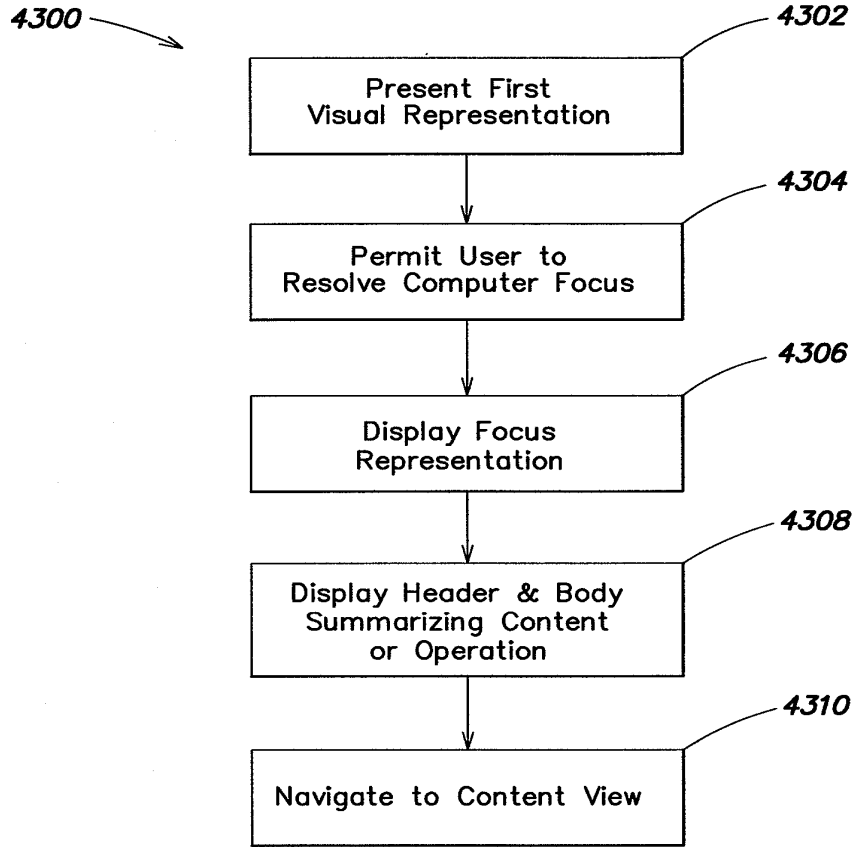


FIG. 43

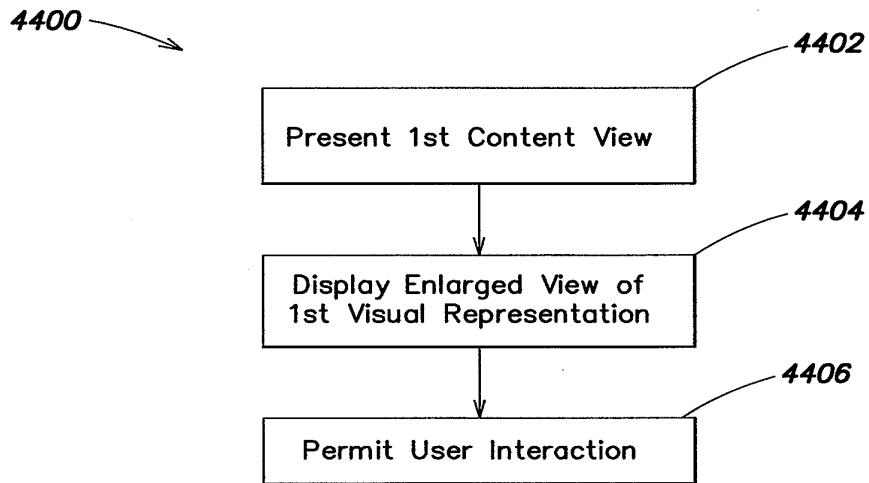
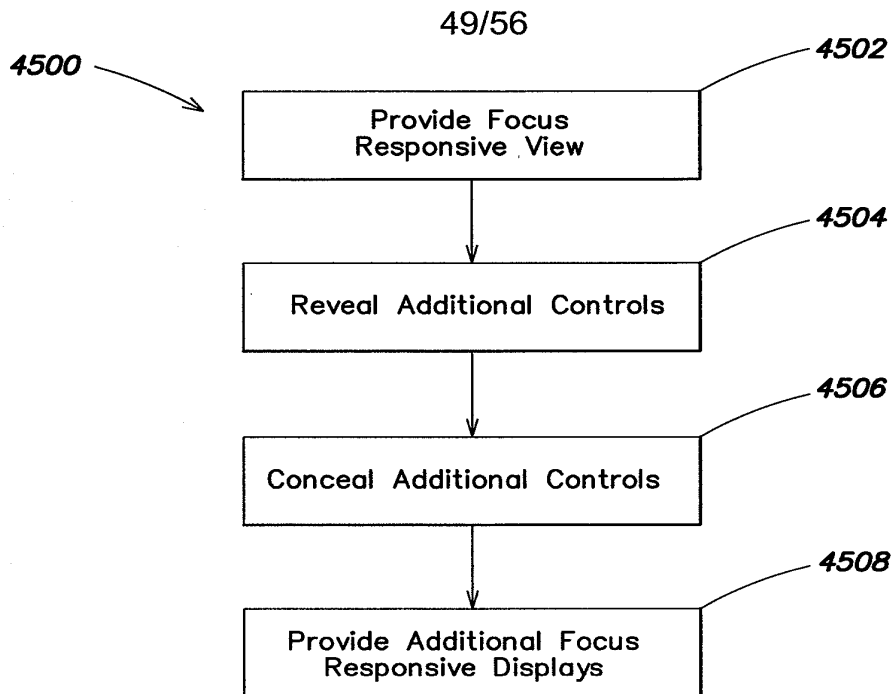
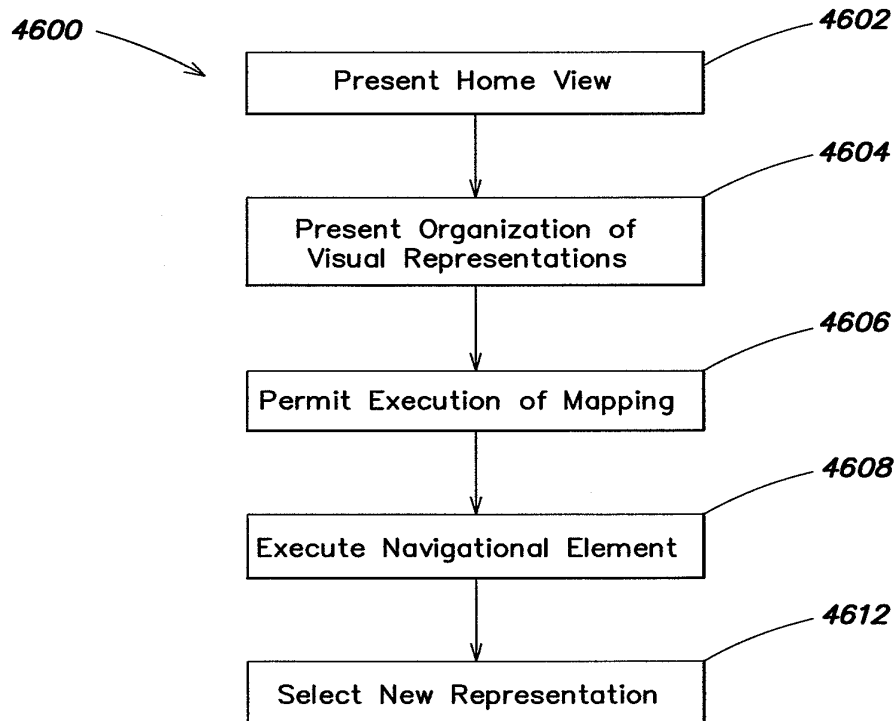


FIG. 44



**FIG. 45**



**FIG. 46**

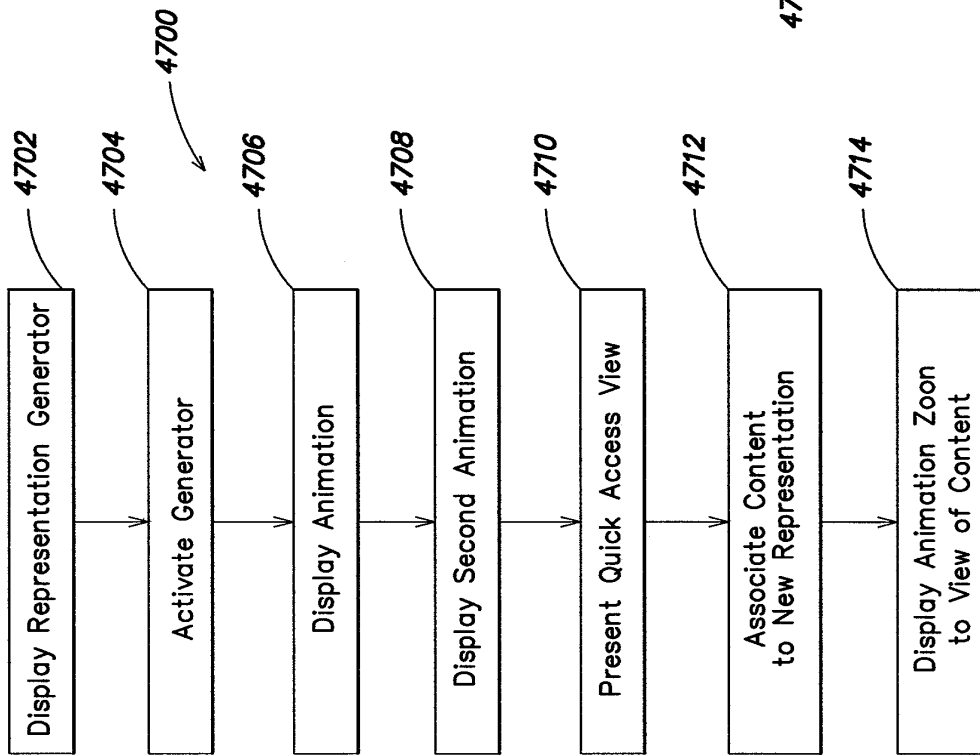


FIG. 47A

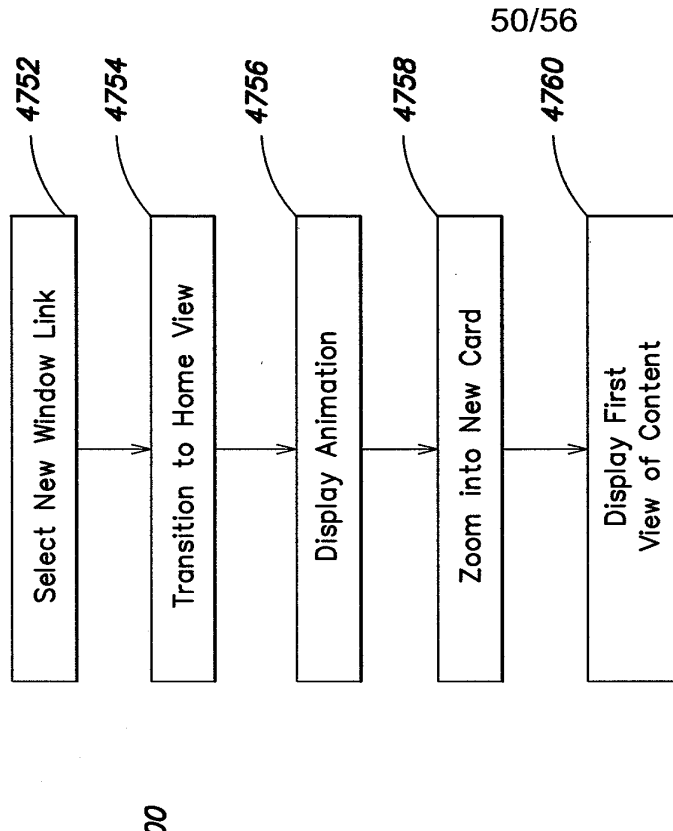


FIG. 47B

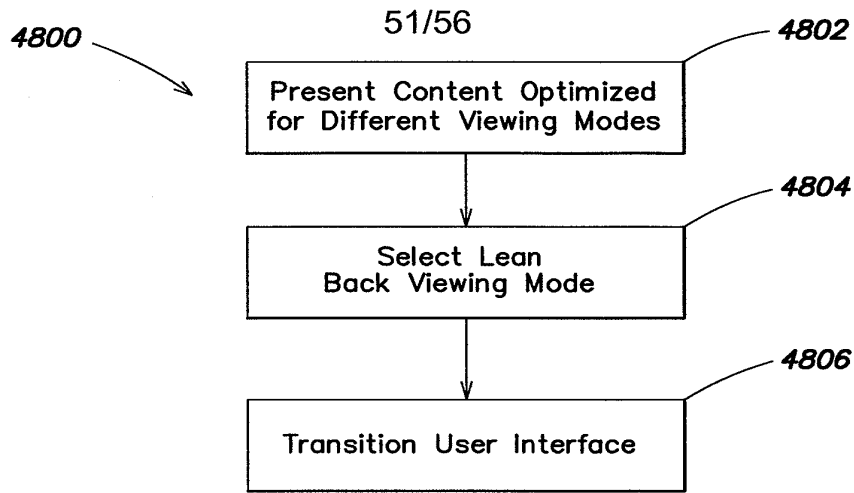


FIG. 48

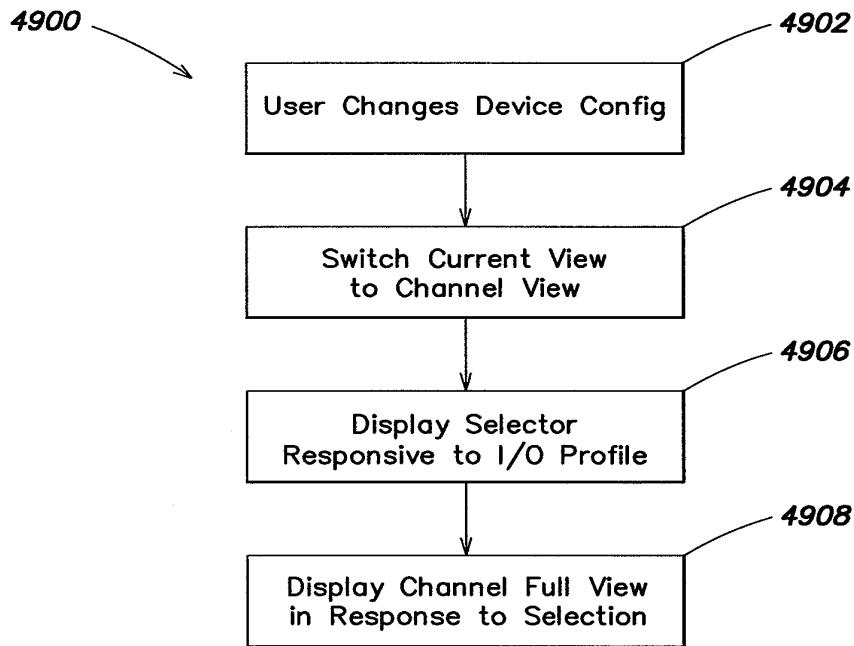


FIG. 49A

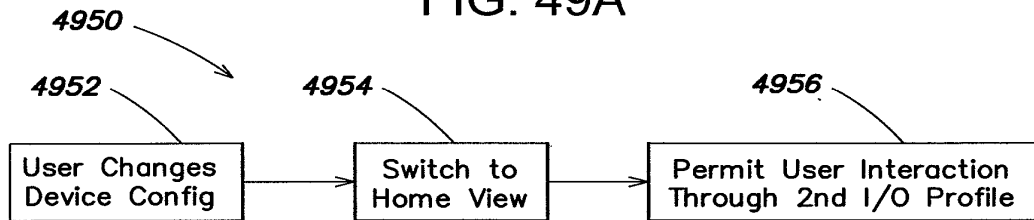


FIG. 49B

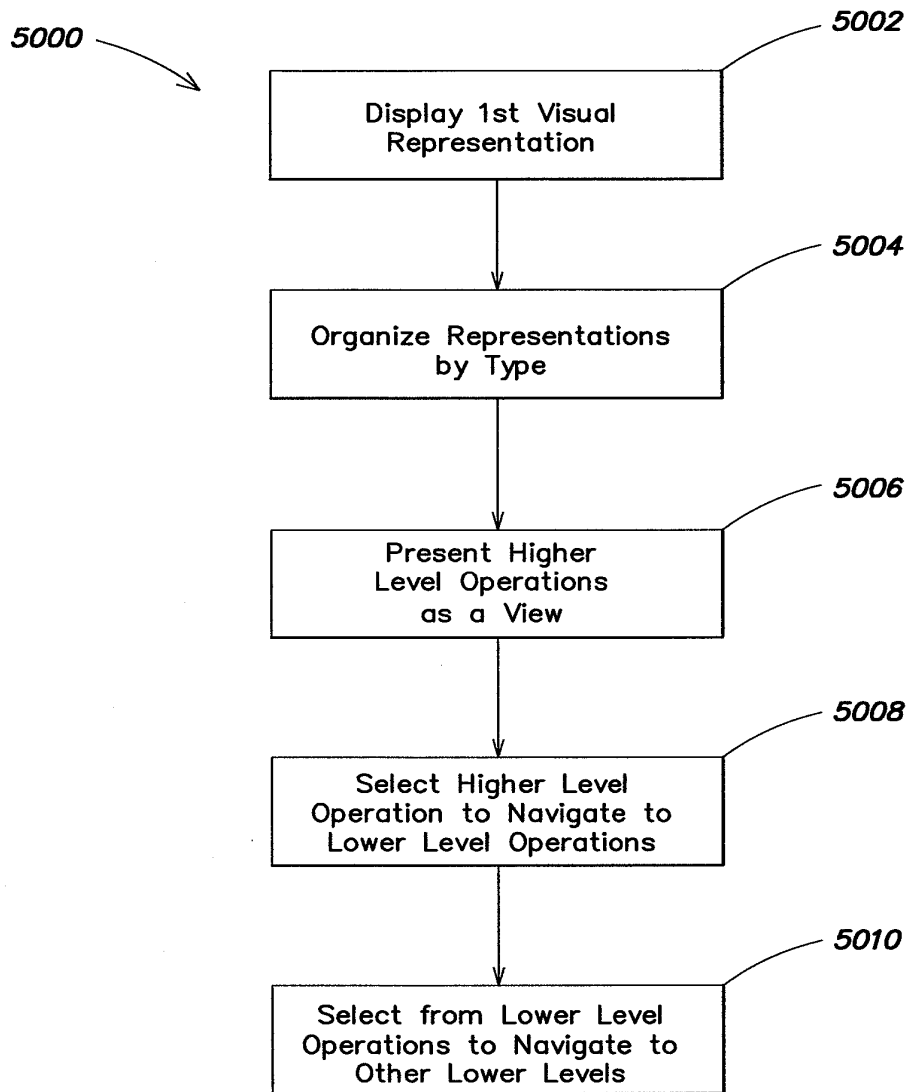


FIG. 50

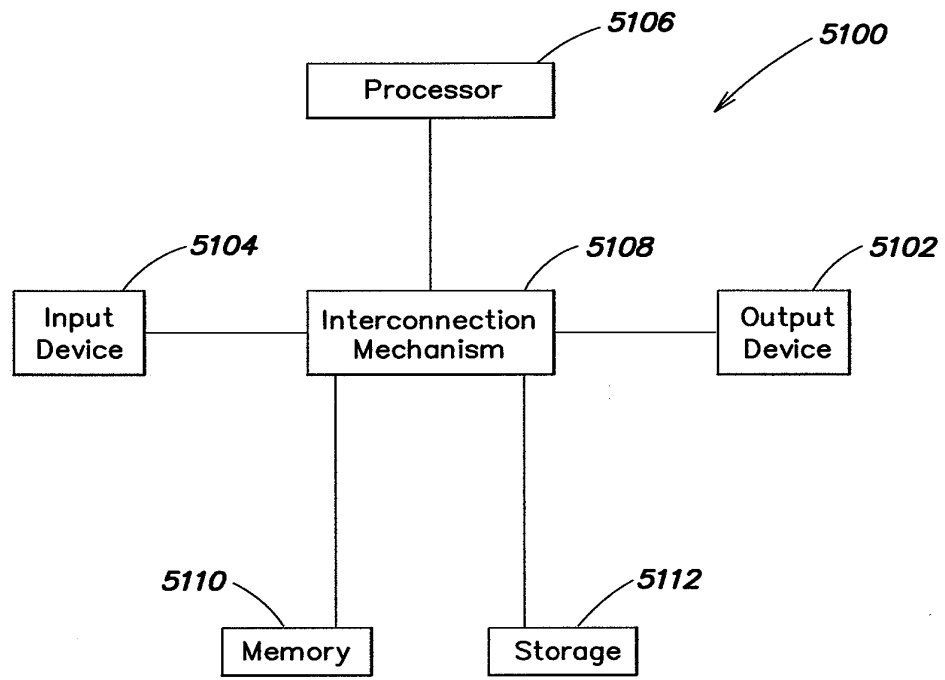


FIG. 51

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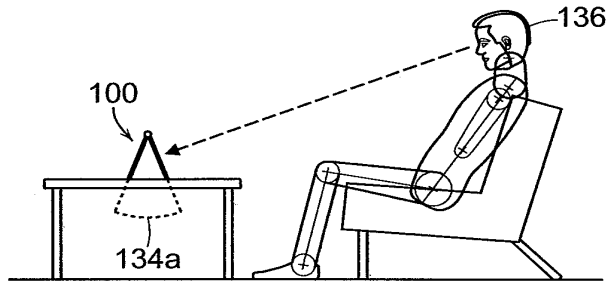


FIG. 52A

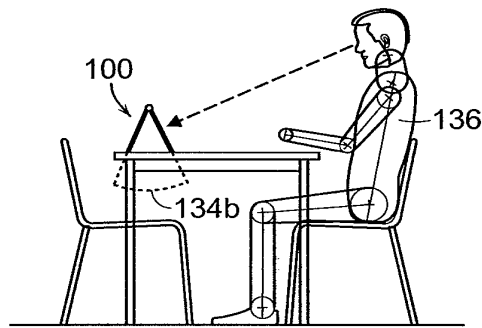


FIG. 52B

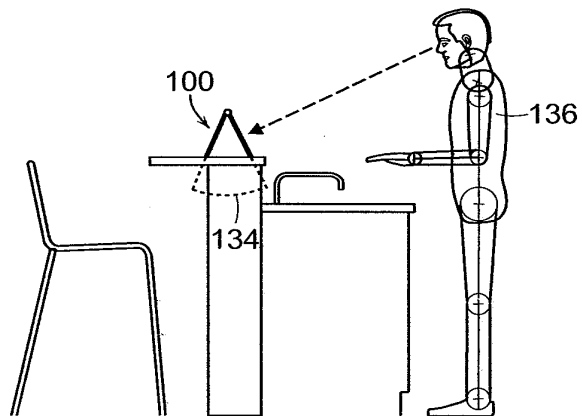


FIG. 52C



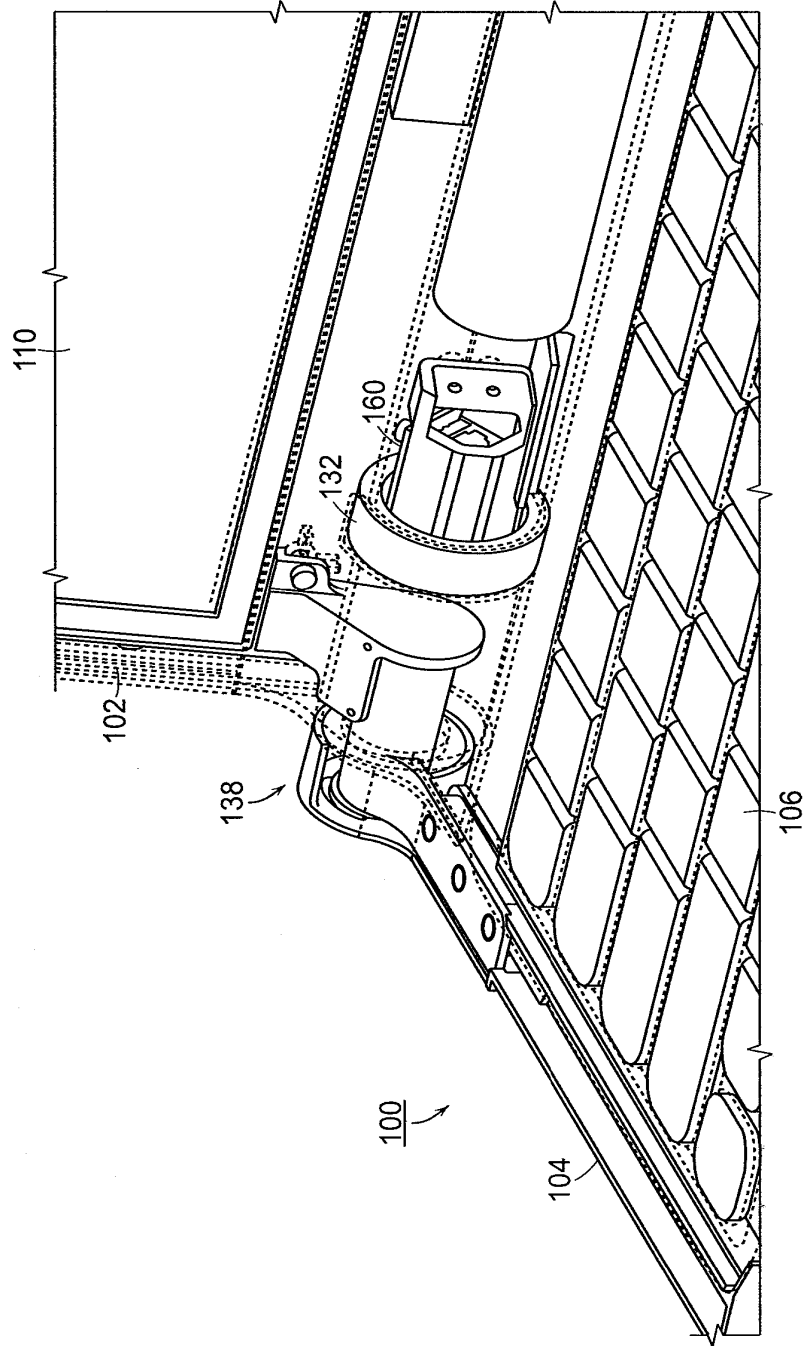


FIG. 53A

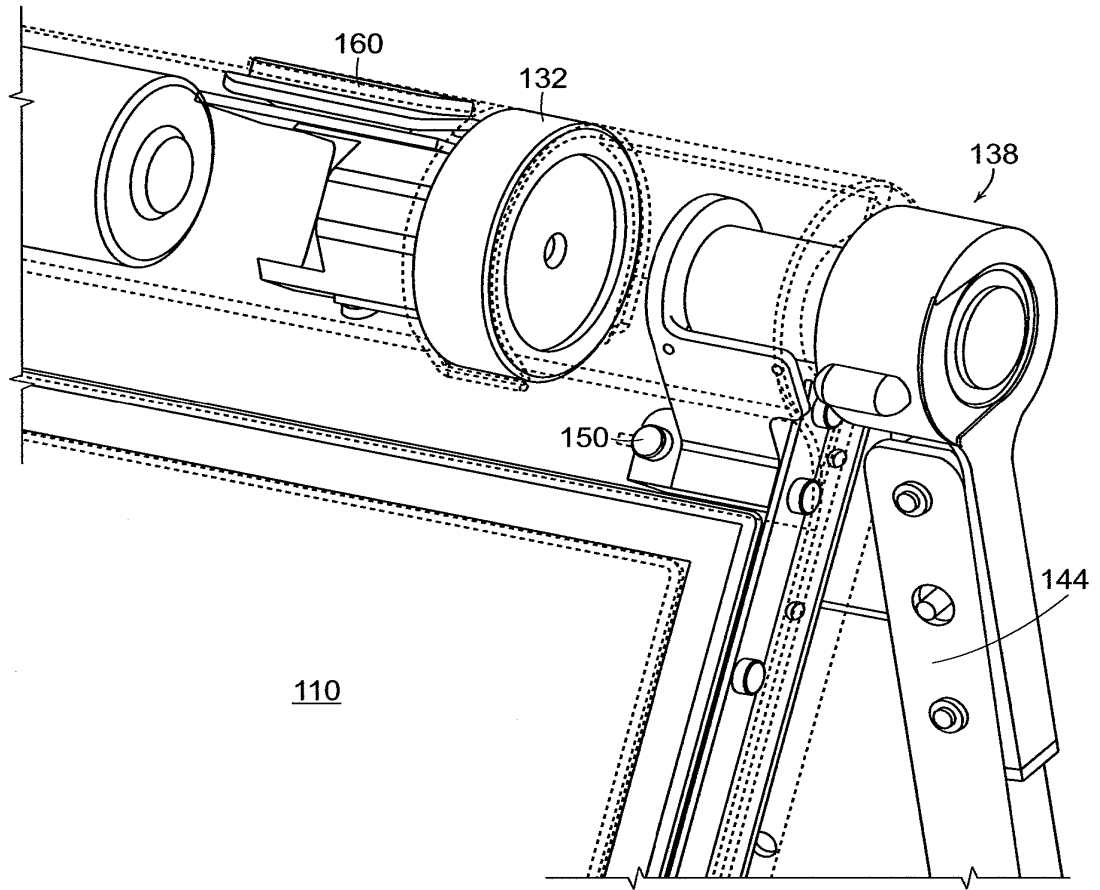


FIG. 53B

## Electronic Acknowledgement Receipt

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

### Payment information:

Submitted with Payment	no
------------------------	----

### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	Application_Data_Sheet_Fillable_PDF.PDF	1896343 <small>e7903c6f9bb712b3e16fb173bef464797555b7f7</small>	no	13

### Warnings:

### Information:

2		Application.pdf	488321	yes	106
			a755731e8eaa9aa61b9300271f351b219371e40		
<b>Multipart Description/PDF files in .zip description</b>					
		<b>Document Description</b>	<b>Start</b>	<b>End</b>	
		Specification	1	101	
		Claims	102	105	
		Abstract	106	106	
<b>Warnings:</b>					
<b>Information:</b>					
3	Drawings-only black and white line drawings	Figures.PDF	2124847	no	56
			91f3c8a43a4bd6554d88c1a51b7db60bb61b9ebd		
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>			4509511		
<p>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.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					