

Title: THREE-DIMENSIONAL SHADOWS CAST BY OBJECTS

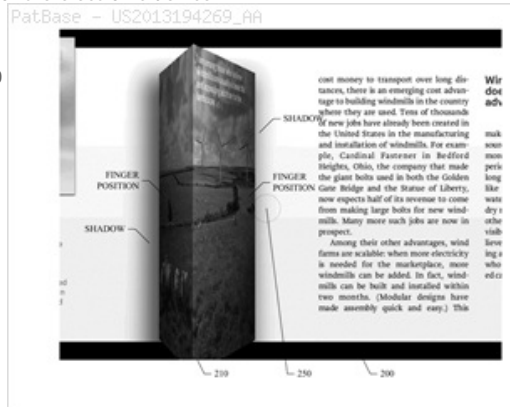
Abstract: Particular embodiments display an object over a background on a screen of an electronic device; and display a shadow effect for the object on the screen of the electronic device, including simulating a three-dimensional (3D) environment encompassing the object; simulating a light source at a specific position within the simulated 3D environment; simulating a shadow cast by the object on the background as a result of the light source shining on the object in the simulated 3D environment; and rendering the shadow on the screen of the electronic device.

Classifications:

International (IPC 8-9): G06F17/21 G06F17/22 G06F17/30 G06F3/00
G06F3/01 G06F3/048 G06F3/0481 G06F3/0482 G06F3/0484
G06F3/0485 G06F3/0488 G06F9/44 G06T11/60 G06T15/60 G09G5/00
H04L29/08 (Advanced/Invention);
H04L29/08 (Advanced/Non-invention)

CPC: G06T11/60 G06T15/60 G06F3/017 G06F3/0484 G06F3/04842
G06F17/211 H04L67/06 G06F17/2241 G06F3/04815 G06F3/0481
G06F9/4443 G06F3/04883 G06F3/04845 G06F2203/04808
G06F3/04817 H04L67/18 G06F8/34 G06F3/0485 G06F3/04847
G06F3/048 G06F3/0482 G06F9/451

US: 1/1 345/426 345/634 709/203 715/256 715/716 715/717
715/757 715/762 715/764 715/765 715/766 715/767 715/784
715/835 715/849 715/853 715/854



Family:

Publication number	Publication date	Application number	Application date
US2013194269 AA	20130801	US20120555607	20120723
US2013194307 AA	20130801	US20120555845	20120723
US2013198261 AA	20130801	US20120489172	20120605
US2013198631 AA	20130801	US20120555909	20120723
US2013198634 AA	20130801	US20120490343	20120606
US2013198661 AA	20130801	US20120677132	20121114
US2013198663 AA	20130801	US20120487805	20120604
US2013198664 AA	20130801	US20120488076	20120604
US2013198665 AA	20130801	US20120555657	20120723
US2013198666 AA	20130801	US20120489265	20120605
US2013198668 AA	20130801	US20120490367	20120606
US2013198681 AA	20130801	US20120488039	20120604
US2013198682 AA	20130801	US20120555876	20120723
US2013198683 AA	20130801	US20120677093	20121114
US2013227494 AA	20130829	US20120490736	20120607
US2013339907 AA	20131219	US20120491100	20120607
US2014013283 AA	20140109	US20120487765	20120604
US2015100880 AA	20150409	US20140572405	20141216
US2015100924 AA	20150409	US20140569475	20141212
US2016092096 AA	20160331	US20150961227	20151207
US2017131859 AA	20170511	US20170412899	20170123
US2017131889 AA	20170511	US20170412347	20170123
US2017192661 AA	20170706	US20170421725	20170201
US2017199641 AA	20170713	US20170470652	20170327
US8976199 BB	20150310	US20120555845	20120723
US8984428 BB	20150317	US20120489265	20120605
US8990691 BB	20150324	US20120490343	20120606
US8990719 BB	20150324	US20120555657	20120723
US9003305 BB	20150407	US20120490736	20120607
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US9098168 BB	20150804	US20120555909	20120723
US9229613 BB	20160105	US20120488039	20120604
US9235317 BB	20160112	US20120487765	20120604
US9235318 BB	20160112	US20120488076	20120604
US9239662 BB	20160119	US20120491100	20120607
US9552147 BB	20170124	US20120487805	20120604
US9557876 BB	20170131	US20120677132	20121114
US9606708 BB	20170328	US20120555876	20120723
US9645724 BB	20170509	US20120677093	20121114

Priority:

US20120593841P	20120201	US20120487765	20120604	US20120487805	20120604
US20120488076	20120604	US20120488039	20120604	US20120489172	20120605
US20120489265	20120605	US20120490343	20120606	US20120490367	20120606
US20120490736	20120607	US20120491100	20120607	US20120555607	20120723

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US20140569475 20141212 US20140572405 20141216 US20150961227 20151207
US20170412899 20170123 US20170412347 20170123 US20170421725 20170201
US20170470652 20170327

Probable Assignee: FACEBOOK INC

Assignee(s): (std): FACEBOOK INC ; MATAS MICHAEL ; MELCHER CHARLES ; SARNER AUSTIN ; TSINTERIS KIMON

Inventor(s): (std): MATAS MICHAEL ; MELCHER CHARLES ; SARNER AUSTIN ; TSINTERIS KIMON

Agent(s): BAKER BOTTS LLP

2) Family number: 61843325 (US2016070681A)

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Title: PRE-CHILDREN IN A USER INTERFACE TREE

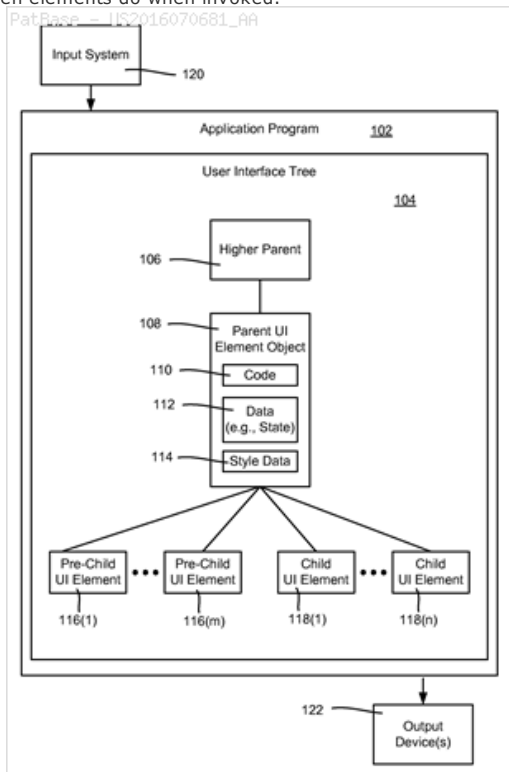
Abstract: The described technology is directed towards a pre-child user interface element in a user interface tree that draws before the parent element draws, (and thus before any conventional child element of the parent draws). For example, based upon current state data such as whether the parent element has focus, the pre-child may draw a highlight or the like before (so as to be beneath) drawing the representation of the parent element, to indicate the focused state (or and/or other current state or states). The user interface tree maintains a property that it is composable because the parent user interface element code is independent of what any of its pre-child element or pre-children elements do when invoked.

Classifications:

International (IPC 8-9): G06F17/22 G06F9/44 (Advanced/Invention)

CPC: G06F17/2247 G06F9/4443 G06F9/451

US: 715/234



Family:

Publication number	Publication date	Application number	Application date
CA2960183 AA	20170303	CA20152960183	20150903
CO20170003247 A2	20170728	CO20170003247	20170403
EP3189424 A1	20170712	EP20150775838	20150903
MX2017002870 A1	20170530	MX20170002870	20150903
SG11201701784T A1	20170427	SG20171101784	20150903
US2016070681 AA	20160310	US20150843798	20150902
WO16036992 A1	20160310	WO2015US48413	20150903

Priority:

US20140046134P 20140904 US20150843798 20150902 WO2015US48413 20150903

Probable Assignee: HOME BOX OFFICE INC

Assignee(s): (std): HOME BOX OFFICE INC

Assignee(s): PARKER J JORDAN C ; CLARK BRENDAN JOSEPH ; FURTWANGLER BRANDON C

Inventor(s): (std): BRANDON C FURTWANGLER ; BRENDAN JOSEPH CLARK ; CLARK BRENDAN JOSEPH ; FURTWANGLER BRANDON C ; J JORDAN C PARKER ; PARKER J JORDAN C

Agent(s): SMART AND BIGGAR; CAROLINA MERCEDES DAZA MONTALVO; GRUENECKER PATENT U RECHTSANWALTE PARTG MBB; MICHALIK ALBERT S ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 32844428 (US2006085764A)

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Abstract: Various new and non-obvious apparatus and methods for ensuring a user interface element is visible within an automated user interface test environment are disclosed. One of the disclosed embodiments is a method for locating a parent element of the user interface element and then making the user interface object visible using top-down scrolling, bottom-up scrolling, expanding, or a combination of all three. Top-down scrolling scrolls the parent element until the user interface element becomes visible. Bottom-up scrolling first locates a grandparent element. The parent element then scrolls until the user interface element is within the parent object. The grandparent element is then scrolled until the parent element is visible within the grandparent element, the parent object is then scrolled until the user interface element is visible within the grandparent element. This exemplary embodiment further confirms that the user element interface made visible can be selected by ensuring that the window where the user interface element resides is ready for user input and is not covered by another object.

Classifications:

International (IPC 8-9): G06F11/28 G06F11/36 G06F17/00

G06F17/30 G06F3/033 G06F3/048 G06F3/14

G06F9/44 (Advanced/Invention);

G06F3/14 (Advanced/Non-invention);

G06F11/28 G06F11/36 G06F17/00 G06F17/30 G06F3/033 G06F3/048

G06F3/14 G06F9/44 (Core/Invention)

International (IPC 1-7): H04N17/04

CPC: G06F3/0481 G06F3/0482 G06F3/0485 G06F11/3688

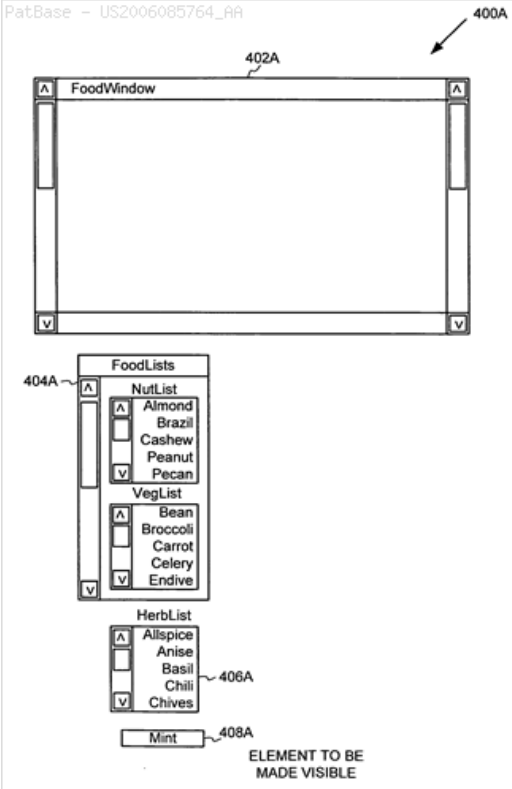
G06F11/3696 Y10S707/99934

European: G06F11/36T2E G06F11/36T4 G06F3/0481 G06F3/0482

G06F3/0485

US: 707/4 707/999.004 714/E11.207 714/E11.207S 715/786 715/853

715/853P 717/125



Family:

Publication number	Publication date	Application number	Application date
AT533106 E	20111115	AT20050020139T	20050915
CN1760841 A	20060419	CN200510116337	20051014
CN1760841 B	20120523	CN200510116337	20051014
DE602005031064 D1	20120202	DE200560031064T	20050915
EP1650660 A2	20060426	EP20050020139	20050915
EP1650660 A3	20091104	EP20050020139	20050915
EP1650660 B1	20111109	EP20050020139	20050915
IN02443DE2005 A	20091002	IN2005DE02443	20050912
JP2006114049 A2	20060427	JP20050301987	20051017
KR101004493 B1	20101231	KR20050091106	20050929
KR20060051821 A	20060519	KR20050091106	20050929
US2006085764 AA	20060420	US20040966855	20041015
US7543278 BB	20090602	US20040966855	20041015

Priority:

US20040966855 20041015 EP20050020139 20050915

Probable Assignee: MICROSOFT TECHNOLOGY LICENSING LLC

Assignee(s): (std): MICROSOFT CORP

Assignee(s): MICROSOFT TECHNOLOGY LICENSING LLC ; MICROSOFT TECHNOLOGY LICENSING LLC REDMOND

Inventor(s): (std): KLEMENTIEV DMITRI A

Inventor(s): KLEMENTIEV DMITRI A REDMOND ; DMITRI A KLEMENTIEV ; KLEMENTIEV DMITRI

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GODDAR HEINZ J; ABE KAZUO; TANI YOSHIKAZU; KLARQUIST SPARKMAN LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO
SE SI SK TR YU

4) Family number: 28137286 (US2001045961A)

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Title: SYSTEM AND THEME FILE FORMAT FOR CREATING VISUAL STYLES

Abstract: A method of specifying a visual style for a set of graphical components is provided for use on a computer system having a graphical operating environment. The method includes providing a schema file of available graphical components for which a visual style can be created. In the schema file, each component is defined by a unique class name. The method further includes selecting graphical components from the schema file that are desired to have a defined visual style. Properties are then assigned to these selected components according to the desired visual style, and pairs of selected

graphical components and corresponding assigned properties for the defined visual style together are grouped together in a class data file that defines the overall appearance for the defined visual style.

Classifications:

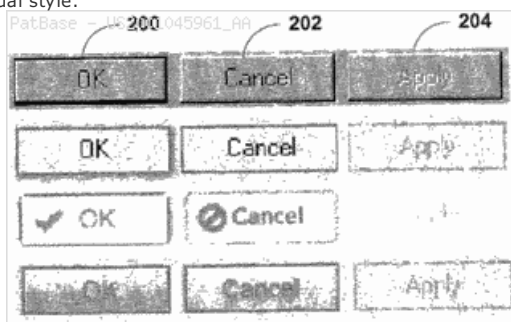
International (IPC 8-9): G06F1/00 G06F13/14 G06F15/16 G06F17/00
G06F17/50 G06F3/00 G06F3/048 G06F3/14 G06F9/00 G06F9/06
G06F9/44 G06F9/46 G06T1/00 G06T11/80 G09G5/00
H04L29/02 (Advanced/Invention);
G06F3/14 G06F5/02 G06F9/00 G06F9/06 (Advanced/Non-invention);
G06F1/00 G06F13/14 G06F17/00 G06F3/00 G06F3/14 G06F9/00
G06F9/06 G06F9/44 G06F9/46 G06T1/00 G06T11/80 G09G5/00
H04L29/02 (Core/Invention);
G06F (Subclass/Invention)

International (IPC 1-7): G06F12/00 G06F13/14 G06F15/16
G06F17/00 G06F17/24 G06F17/30 G06F17/50 G06F3/00 G06F3/14
G06F9/00 G06F9/06 G06F9/44 G06F9/45 G06F9/54 G06T1/00
G09G5/00 G11B27/00 H04L29/02

CPC: Y10S707/99943 Y10S707/99944 G06F9/541 G06F9/547
G06F9/451 G06F3/048

European: G06F3/048 G06F9/44 G06F9/44W

US: 345/501 345/522 345/581 345/581P 345/581S 345/700 345/744 345/762 345/764 345/853 707/102 707/103R
707/999.102 707/999.103 711/118 711/118S 715/209 715/210 715/211 715/234 715/234P 715/243 715/248 715/248S
715/256 715/256S 715/502 715/517 715/522 715/700 715/700P 715/700S 715/723 715/723S 715/744 715/746 715/762
715/763 715/764 715/765 715/765P 715/767 715/853 715/866 715/866S 725/45



Family:

Publication number	Publication date	Application number	Application date
AU2004205327 AA	20050512	AU20040205327	20040830
AU2004205327 BB	20100401	AU20040205327	20040830
BRPI0407050 A	20051122	BR2004PI07050	20040910
CA2481590 AA	20050424	CA20042481590	20040914
CL2004001942 A1	20050715	CL20040001942	20040730
CN100476724 C	20090408	CN200610100604	20010406
CN100530083 C	20090819	CN200410078504	20040913
CN1311346 C	20070418	CN20011021697	20010406
CN1322993 A	20011121	CN20011021697	20010406
CN1609792 A	20050427	CN200410078504	20040913
CN1881180 A	20061220	CN200610100604	20010406
EP1143334 A2	20011010	EP20010460022	20010406
EP1143334 A3	20050330	EP20010460022	20010406
EP1536327 A2	20050601	EP20040020899	20040902
EP1536327 A3	20070905	EP20040020899	20040902
IL164072 A0	20051218	IL20040164072	20040914
IL164072 A1	20130131	IL20040164072	20040914
IN01644DE2004 A	20060818	IN2004DE01644	20040831
JP2002014810 A2	20020118	JP20010108988	20010406
JP2005135384 A2	20050526	JP20040264628	20040910
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MXPA04008849 A1	20050617	MX2004PA08849	20040910
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RU2371758 C2	20091027	RU20040127210	20040910
SG111201 A1	20050530	SG20040005538	20040909
TH75386 A	20060202	TH20041002865	20040727
TW200515175 A	20050501	TW20040121805	20040721
TWI366105 B	20120611	TW20040121805	20040721
US2001045961 AA	20011129	US20010825488	20010403
US2001048448 AA	20011206	US20010827957	20010405
US2002039101 AA	20020404	US20010827993	20010405
US2002054046 AA	20020509	US20010827842	20010405
US2004196293 AA	20041007	US20040830290	20040421
US2004201632 AA	20041014	US20040839908	20040506
US2004233209 AA	20041125	US20040868086	20040614
US2005015729 AA	20050120	US20040918032	20040812
US2005081162 AA	20050414	US20040918153	20040812
US2005091576 AA	20050428	US20030694080	20031024
US2005156939 AA	20050721	US20050083177	20050315
US2006271874 AA	20061130	US20060408651	20060421
US2009119578 AA	20090507	US20080207398	20080909
US6753885 BB	20040622	US20010825488	20010403
US6762767 BB	20040713	US20010827842	20010405
US6873337 BA	20050329	US20000670791	20000927
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Priority:

US20000195512P 20000406	US20000195593P 20000406	US20000195594P 20000406
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Probable Assignee: MICROSOFT TECHNOLOGY LICENSING LLC

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Inventor(s): (std): BOGDAN JEFF ; BOGDAN JEFFREY L ; EVANS CHRISTOPHER ; EVENS C A ; FERNANDEZ ROLAND L ; FERNANDI R L ; GUZAK CHRIS J ; HANGGIE SCOTT R ; HELLYAR PAUL S ; RAIZ GREGORY L ; RAIZ GREGORY W ; RELYEA ROB ; RELYEA ROBERT A ; HYSOM SCOTT S ; LOUIS AMADIO ; SCHMIDT MICHAEL A ; STOAKLEY RICHARD W ; STOCKLY C A EVENS R L FERNANDI ; STOCKLY R W ; STOKLEY RICHARD ; STOKLEY RICHARD W ; TINLING AARON B ; RW STOCKLY ; RL FERNANDI ; RELYEA ROB A ; RELAJA ROBERT A ; EVANS CHRISTOPHER A FERNANDEZ ; EVANS CHRISTOPHER A ; CA EVENS ; BOGDAN JEFF L ; BOGDAN DZHEFFRI L ; AMADIO LOUIS ; ROBERT A RELYEA ; JEFFREY L BOGDAN

Inventor(s): R W STOCKLY ; R L FERNANDI ; C A EVENS ; JEFF BOGDAN ; ROB RELYEA ; TINLING AARON ; STOAKLEY RICHARD ; RAIZ GREGORY ; SCHMIDT MICHAEL ; HYSOM SCOTT ; HANGGIE SCOTT ; GUZAK CHRIS ; FERNANDEZ ROLAND ; EVANS CHRISTOPHER A FERNANDEZ ROLAND L STOAKLEYRIC ; C A EVENS R L FERNANDI R W STOCKLY

Agent(s): DAVIES COLLISON CAVE ; DAVIES COLLISON CAVE PTY LTD ; SMART AND BIGGAR ; VILLASECA ; REINHOLD COHN AND PARTNERS ; ONO SHINJIRO ; KOBAYASHI YASUSHI ; TOMITA HIROYUKI ; CHIBA AKIO ; ABE KAZUO ; TANI YOSHIKAZU ; MERCHANT AND GOULD PC ; LEE AND HAYES PLLC ; MICROSOFT C O MERCHANT AND GOULD LLC CORP ; MERCHANT AND GOULD MICROSOFT ; MERCHANT AND GOULD ; SHOOK HARDY AND BACON LLP ; MERCHANT AND GOULD P C

Designated states: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR

5) Family number: 12658816 (US6144377A)

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Title: PROVIDING ACCESS TO USER INTERFACE ELEMENTS OF LEGACY APPLICATION PROGRAMS

Abstract: An architecture is provided that enables an accessibility aid to directly access and manipulate user interface elements of an application program programmatically. Moreover, such access and manipulation occurs in an application-independent manner, so that an accessibility aid utilizing the architecture can access the user interface elements of any application program that conforms to the architecture, without the accessibility aid needing any prior knowledge of the application program or its user interface elements. User interface elements typically have both a visual representation displayed on the video display and an implementation, which is the code and data implementing the user interface element. The architecture provides an accessibility aid with direct access to the implementation of user interface elements, thus enabling the accessibility aid to both examine various characteristics of the user interface element and manipulate these characteristics, which may affect its visual representation. Although this architecture provides many benefits to accessibility aids, some application programs predate the preferred architecture and are thus unable to support this architecture. The present system supports the architecture on behalf of such application programs, known as legacy application programs, to retrofit or integrate these application programs into the architecture.

Classifications:

International (IPC 8-9): G06F9/44 (Advanced/Invention); G06F9/44 (Core/Invention)

International (IPC 1-7): G06F3/00

CPC: G06F9/451 G06F9/541

European: G06F9/44W G06F9/54A

US: 345/335 345/744 715/744



Family:

Publication number	Publication date	Application number	Application date
US6144377 A	20001107	US19970815101	19970311

Priority:

US19970815101 19970311

Probable Assignee: MICROSOFT TECHNOLOGY LICENSING LLC

Assignee(s): MICROSOFT CORP

Assignee(s): MICROSOFT TECHNOLOGY LICENSING LLC

Inventor(s): (std): BUTLER LAURA J ; DONIE STEVEN M ; OPPERMAN CHARLES ; WONG PETER KAM HO

6) Family number: 54587123 (US2013214995A)

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Title: SYSTEM AND METHOD FOR DISPLAYING A USER INTERFACE ACROSS MULTIPLE ELECTRONIC DEVICES

Abstract: A system and method are provided for displaying a user interface using multiple electronic devices. The method comprises providing a first user interface framework on a first electronic device having a first display screen; the first user interface framework determining that a second display screen on a second electronic device is available via a connection between the first and second electronic devices; the first user interface framework using application logic from an application on the first mobile device to determine a first user interface portion to be displayed on the first display screen and a second user interface portion to be displayed on the second display screen; and the first user interface framework providing data associated with the second user interface portion to the second electronic device.

Classifications:

International (IPC 8-9): G06F3/0484 G06F3/14

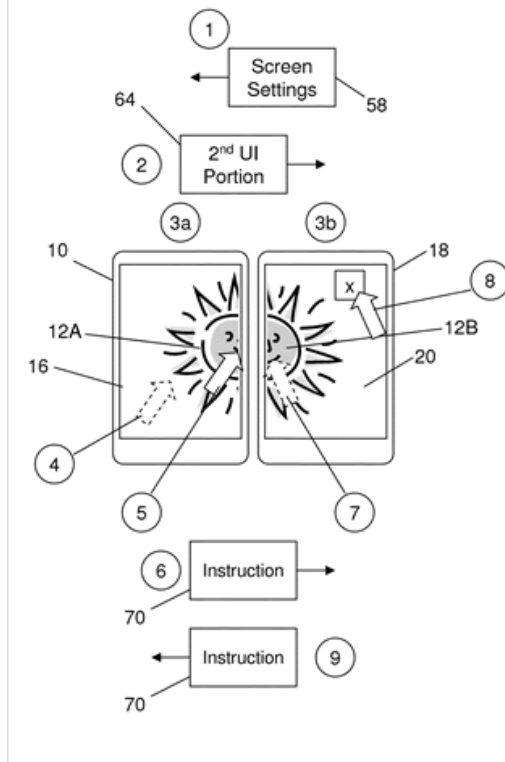
G09G5/00 (Advanced/Invention);

G09G5/12 (Advanced/Non-invention)

CPC: G06F3/0484 G06F3/1446 G09G5/12 G09G2356/00

G09G2370/022 G09G2370/06

US: 345/1.3 715/744

**Family:**

Publication number	Publication date	Application number	Application date
US2013214995 AA	20130822	US20120401564	20120221
US2014310611 AA	20141016	US20140315009	20140625
US8786517 BB	20140722	US20120401564	20120221
US9684434 BB	20170620	US20140315009	20140625

Priority:

US20120401564 20120221 US20140315009 20140625

Probable Assignee: BLACKBERRY LTD

Assignee(s): (std): BLACKBERRY LTD ; ERIKSSON MARCUS ; LEWIN MATHIAS ; GAERDENFORS DAN ZACHARIAS ; RES IN MOTION TAT AB

Assignee(s): RESEARCH IN MOTION TAT AB ; RESEARCH IN MOTION LTD

Inventor(s): (std): ERIKSSON MARCUS ; GAERDENFORS DAN ZACHARIAS ; LEWIN MATHIAS ; GARDENFORS DAN ZACHARIAS

Agent(s): NOVAK DRUCE CONNOLLY BOVE AND QUIGG LLP; THOMAS; FLEIT GIBBONS GUTMAN BONGINI AND BIANCO PL

7) Family number: 28039146 (US2003020740A)

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Title: GRAPHICS STACK SYSTEM AND METHOD

Abstract: A system and method are provided for drawing graphics, such as to display a user interface on a display of a mobile device. A graphics stack is used to store pre-computed coordinate values to improve performance for drawing graphics, such as to display a user interface on a display of a mobile device.

Classifications:

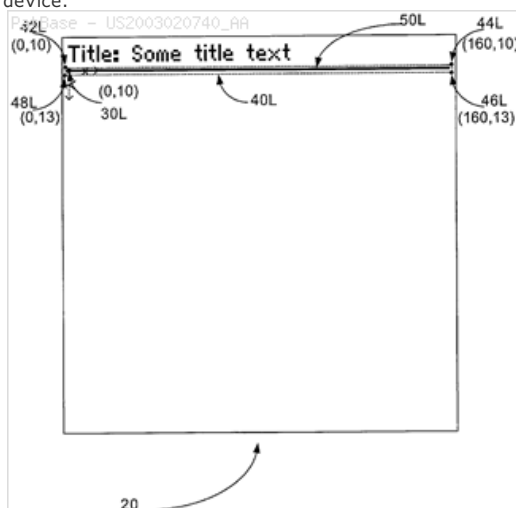
International (IPC 8-9): G06F3/00 G06F3/048 G06F3/14 G06T11/00 G06T11/20 G06T15/00 G09G5/36 (Advanced/Invention); G06T11/00 (Advanced/Non-invention)

International (IPC 1-7): G06F3/14 G09G5/00 G09G5/36

CPC: G06T11/00

European: G06T11/00

US: 345/162 345/169 345/441 345/441S 345/522 345/522P 345/530 345/700 715/700 715/700P 715/765 715/791 715/791P 715/815 715/815P 715/864 715/866

**Family:**

Publication number	Publication date	Application number	Application date
CA2390390 AA	20030103	CA20022390390	20020703
CA2390390 C	20110830	CA20022390390	20020703
US2003020740 AA	20030130	US20020189715	20020703
US2007150837 AA	20070628	US20070683842	20070308
US2010306695 AA	20101202	US20100856026	20100813
US2012169749 AA	20120705	US20120418639	20120313
US2013002692 AA	20130103	US20120617137	20120914
US7200819 BB	20070403	US20020189715	20020703
US7779366 BB	20100817	US20070683842	20070308
US8156449 BB	20120410	US20100856026	20100813
US8296685 BB	20121023	US20120418639	20120313
US8533633 BB	20130910	US20120617137	20120914

Priority:

US20010302871P 20010703 CA20022390390 20020703 US20020189715 20020703
US20070683842 20070308 US20100856026 20100813 US20120418639 20120313
US20120617137 20120914

Probable Assignee: BLACKBERRY LTD

Assignee(s): (std): BELLS MATTHEW ; BLACKBERRY LTD ; RESEARCH IN MOTION LIMITED ; RESEARCH IN MOTION LTD ; YOUNG BRIAN A

Inventor(s): (std): BELLS MATTHEW ; YOUNG BRIAN A

Inventor(s): YOUNG BRIAN

Agent(s): BORDEN LADNER GERVAIS LLP; JOHN V BIERNACKI ESQ JONES DAY REAVIS AND POGUE; JONES DAY (RIM) - 2N; JONES DAY RIM 2N; JONES DAY; ROBERT C; KRISHNA K; NORTON ROSE FULBRIGHT CANADA LLP

8) Family number: 51298896 (US2012151389A)

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Title: STATIC DEFINITION OF UNKNOWN VISUAL LAYOUT POSITIONS

Abstract: The subject disclosure relates to applying layout changes and/or animations in a computing system by statically defining unknown visual layout positions of elements within a user interface. Changes that are to be applied to the elements in a user interface are intercepted by mechanism as described herein that applies the changes as a function of a static reusable component. The static reusable component can be applied across various platforms. Animation is performed on a first element as described herein based at least in part on layout input properties of the first element or layout input properties of a second element that is associated with the first element. As additionally described herein, a dynamic graphical layout position can be described based on a definition of an initial layout position and calculation of a resultant layout position, wherein the positions are defined relative to an element or set of elements.

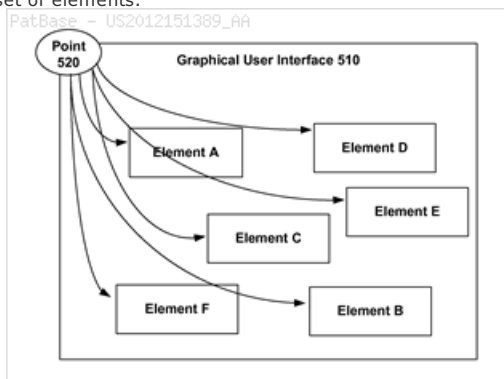
Classifications:

International (IPC 8-9): G06F3/048 G06F9/44 (Advanced/Invention);

G06F (Subclass/Invention)

CPC: G06F8/36 G06F9/451

US: 715/763 715/763P 715/764



Family:

Publication number	Publication date	Application number	Application date
CN102591644 A	20120718	CN201110436595	20111213
CN102591644 B	20150429	CN201110436595	20111213
HK1171824 A1	20160115	HK20120112459	20121203
US2012151389 AA	20120614	US20100966884	20101213
US8694900 BB	20140408	US20100966884	20101213

Priority:

US20100966884 20101213

Probable Assignee: MICROSOFT TECHNOLOGY LICENSING LLC

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Inventor(s): (std): ADAMS TERRY ; BISHOP JESSE ; BOEKE RUURD JOHAN ; JESSE BISHOP ; JESSE BISHOP J ; JOHAN BOEKE RUURD ; RJ RUURD JOHAN BOEKE ; TERRY ADAMS ; TERRY ADAMS T

Inventor(s): RUURD JOHAN BOEKE RJ

Agent(s): CAROLE; MICKY

9) Family number: 15452612 (US6812941B)

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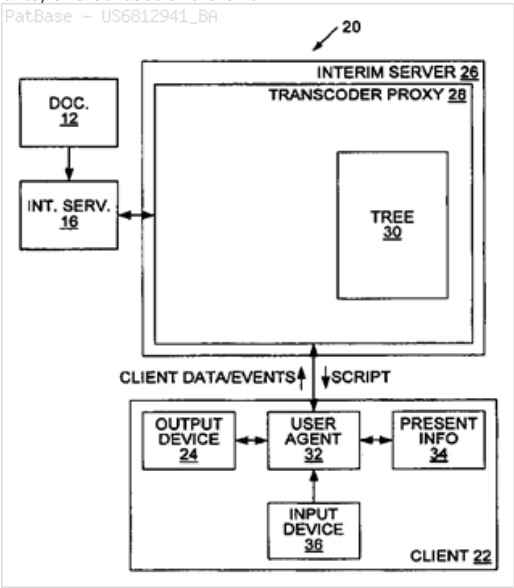
Title: USER INTERFACE MANAGEMENT THROUGH VIEW DEPTH

Abstract: Several different methods for presenting (e.g., displaying) a hierarchical structure are presented. The hierarchical structure includes multiple elements, and defines hierarchical relationships between the elements. The hierarchical structure

may be embodied within an electronic document such as a Web document, an interactive application program, or a map divided into sections. Each element has a "presentation property" which may be a value or a function. A single one of the elements has "focus" (e.g., in accordance with the coding of the document by an author, by default, etc.). A "view depth" method includes forming a model (e.g., a tree structure) of the hierarchical structure. The model includes multiple levels ranked with respect to one another, multiple nodes representing elements, and at least one branch.

Classifications:

International (ipc 8-9): G06F17/00 G06F17/30 G06F19/00 G06F9/44
G09G5/00 (Advanced/Invention);
G06F17/00 G06F17/30 G06F19/00 G06F9/44
G09G5/00 (Core/Invention)
International (ipc 1-7): G06F17/00 G06F19/00 G09G5/00
CPC: G06F9/451 G06F17/30905
European: G06F17/30W9V G06F9/44W
US: 345/760 345/762 345/764 345/767 345/853 345/854
707/E17.121 715/760 715/762 715/764 715/767 715/853 715/854



Family:

Publication number	Publication date	Application number	Application date
CN1148680 C	20040505	CN20001035053	20001207
CN1305164 A	20010725	CN20001035053	20001207
SG97984 A1	20030820	SG20000006867	20001128
TW494345 B	20020711	TW20000126231	20001208
US6812941 BA	20041102	US19990458641	19991209

Priority:

US19990458641 19991209

Probable Assignee: IBM

Assignee(s): (std): IBM

Assignee(s): IBM CORP ; INT BUSINESS MACHINE CORP ; INT BUSINESS MACHINES CORP

Inventor(s): (std): WIS LAURANCE F ; WEISS LAWRENCE F ; SCHWERTFEGER RICHARD S ; SCHWARTFEG RICHARD S ; BROWN FRANCES C ; SCHWARTFEG RICHARD D ; RICHARD S SCHWERTFEGER ; LAWRENCE F WEISS ; FRANCES C BROWN

Inventor(s): LAURANCE F WIS ; RICHARD S SCHWARTFEG ; RICHARD D SCHWARTFEG