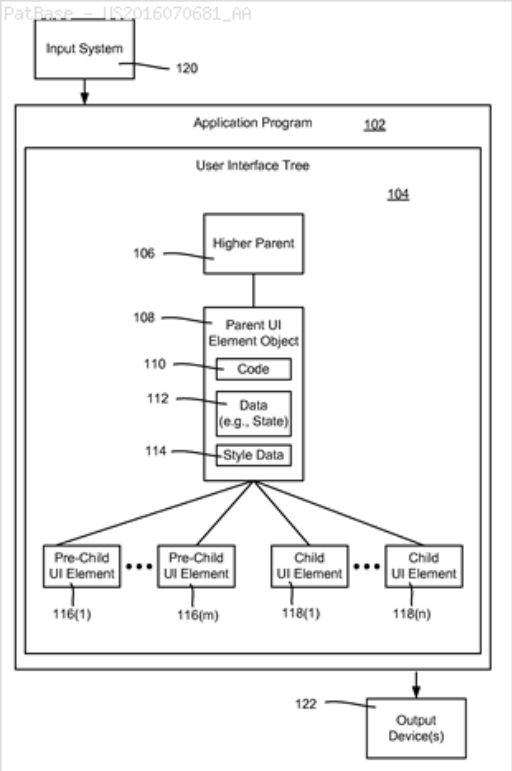


Search history

Search PN=(WO2016036992) (Results 1)
1:
Search [SP]: pre-children in a user interface tree 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. (Results 9)
2:
Search 2 and anima* and highlight* (Results 5)
3:

1) Family number: 61843325 (US2016070681A)
Title: PRE-CHILDREN IN A USER INTERFACE TREE

Abstract:
Source: US2016070681A 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.



International class (IPC 8-9): G06F17/00 G06F17/22 G06F9/44 G06F9/451 (Advanced/Invention)
CPC: G06F17/2247 G06F9/451
US class: 715/234
Family:

Publication number	Pub. date	Application number	App. 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
US2018253407 AA	20180906	US20180971378	20180504
US9965452 BB	20180508	US20150843798	20150902
WO16036992 A1	20160310	WO2015US48413	20150903

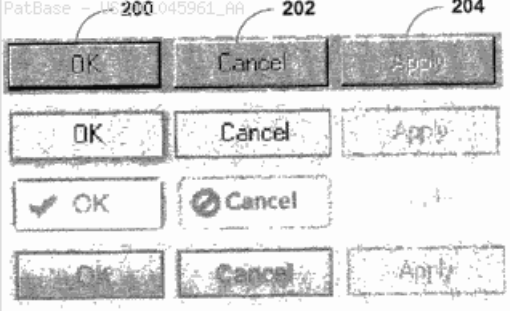
Priority: US20140046134P 20140904; US20150843798 20150902; WO2015US48413 20150903; US20180971378 20180504;

Cited documents: US9239662 BB, US8786517 BB, US8694900 BB, US7543278 BB, US7200819 BB, US6812941 BA, US6144377 A, US2001048448 AA,
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 ; J JORDAN C PARKER ; PARKER J JORDAN C ; FURTWANGLER BRANDON C ;
CLARK BRENDAN JOSEPH
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

2) Family number: 28137286 (US2001045961A)
Title: SYSTEM AND THEME FILE FORMAT FOR CREATING VISUAL STYLES
Abstract:

Source: US2001045961A 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.



International class (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 class (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 class: G06F3/048 G06F9/44 G06F9/44W
US class: 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
JP class F-Term: 5B076/DB03 5B076/DC09 5B076/DD05 5B176 5B176/DB03 5B176/DC09 5B176/DD05 5B376 5B376/AA11 5B376/BC15 5B376/BC21 5B376/BC29 5B376/DA26 5B376/EA15 5B376/FA01 5B376/FA25 5B076/AA13 5B176/AA13 5B376/BA18 5B376/BC05 5B376/BC18 5B376/BC80 5B376/FA13
JP class F-Index: G06F8/34 G06F8/38 G06F9/06/620/B G06F8/00 G06F8/10 G06F8/36 G06F9/06/620/A
Family:

Publication number	Pub. date	Application number	App. date
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CA2481590 AA	20050424	CA20042481590	20040914
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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
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IL164072 A1	20130131	IL20040164072	20040914
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KR101031700 B1	20110429	KR20040072676	20040910
KR20050039549 A	20050429	KR20040072676	20040910
MXPA04008849 A1	20050617	MX2004PA08849	20040910
NO20043781 A	20050425	NO20040003781	20040909
NZ535217 A	20060526	NZ20040535217	20040909
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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
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US2004196293 AA	20041007	US20040830290	20040421
US2004201632 AA	20041014	US20040839908	20040506
US2004233209 AA	20041125	US20040868086	20040614
US2005015729 AA	20050120	US20040918032	20040812
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US2005156939 AA	20050721	US20050083177	20050315
US2006271874 AA	20061130	US20060408651	20060421
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ZA200407299 A	20060531	ZA20040007299	20040910

Priority: US20000195512P 20000406; US20000195593P 20000406; US20000195594P 20000406; US20000195607P 20000406; US20000196004P 20000407; US20000670791 20000927; US20010825488 20010403; US20010827842 20010405; US20010827993 20010405; US20010827957 20010405; US20030694080 20031024; US20040830290 20040421; US20040839908 20040506; US20040868086 20040614; US20040918153 20040812; US20040918032 20040812; CA20042481590 20040914; US20050083177 20050315; US20060408651 20060421; US20080207398 20080909;

Cited documents: WO9531773 A1, WO03065173 A2, US7694229 BB, US7565611 BB, US7376906 BB, US7190369 BB, US7181686 BA, US7137066 BB, US7017162 BB, US6992681 BB, US6952215 BA, US6918091 BB, US6909437 BB, US6873337 BA, US6853868 BA, US6779027 BA, US6753885 BB, US6710782 BB, US6668354 BA, US6664981 BB, US6613099 BB, US6598219 BA, US6580438 BA, US6546397 BA, US6538651 BA, US6480813 BA, US6466228 BA, US6426761 BA, US6393432 BA, US6392671 BA, US6353451 BA, US6349645 BA, US6346945 BA, US6307574 BA, US6262729 BA, US6243106 BA, US6243102 BA, US6239795 BA, US6219056 BA, US6218007 BA, US6215495 BA, US6188399 BA, US6137492 A, US6128007 A, US6104391 A, US6091411 A, US6072501 A, US6039047 A, US6023271 A, US6014138 A, US5986667 A, US5974470 A, US5963206 A, US5959624 A, US5956506 A, US5917487 A, US5905492 A, US5893107 A, US5880729 A, US5879973 A, US5862379 A, US5838317 A, US5794470 A, US5758153 A, US5745762 A, US5655093 A, US5603034 A, US5596702 A, US5503034 A, US5327529 A, US5301336 A, US5301301 A, US53128007 A, US2009119578 AA, US2006271874 AA, US2005091576 AA, US2005015729 AA, US2004196293 AA, US2003200254 AA, US2003184590 AA, US2003177282 AA, US2003172196 AA, US2003167356 AA, US2003167355 AA, US2003167277 AA, US2003101439 AA, US2003093419 AA, US2003052921 AA, US2003028685 AA, US2002167543 AA, US2002099713 AA, US2002054046 AA, US2001048448 AA, US2001045961 AA, RU2212118 C2, RU2157000 C2, KR20030036736 A, KR20020040588 A, KR20010076789 A, JP5508726 T2, JP500512, JP2000163490 A2, JP10500512 T2, EP1536451 A1, EP1536327 A2, EP1283465 A2, EP1143334 A2, EP1077404 A2, EP0860773 A1, EP0442676 A2, EP0371941 B1, EP0371941 A2,

Assignee(s): (std): MICROSOFT CORP ; TINLING AARON B ; STOAKLEY RICHARD W ; SCHMIDT MICHAEL A ; RAZI GREGORY L ; EVANS CHRISTOPHER A ; AMADIO LOUIS

Assignee(s): BOGDAN JEFFREY L ; FERNANDEZ ROLAND L ; GUZAK CHRIS J ; HANGGIE SCOTT R ; HELLYAR PAUL S ; HYSOM SCOTT S ; MAJKROSOFT KORPOREJSHN ; RELYEA ROBERT A ; MICROSOFT TECHNOLOGY LICENSING LLC

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

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

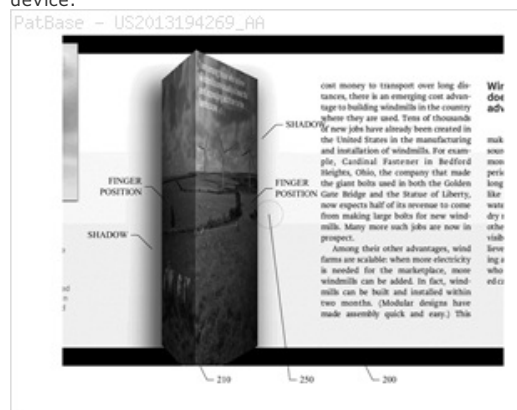
Designated states: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR

3) Family number: 54420582 (US2013194269A)

Title: THREE-DIMENSIONAL SHADOWS CAST BY OBJECTS

Abstract:

Source: US2013194269A 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.



International class (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 G06F3/04883

G06F3/04845 G06F2203/04808 G06F3/04817 H04L67/18 G06F8/34 G06F3/0485 G06F3/0487 G06F3/048 G06F3/0482 G06F9/451

US class: 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	Pub. date	Application number	App. 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
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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
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US2013198682 AA	20130801	US20120555876	20120723
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US2017199641 AA	20170713	US20170470652	20170327

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US9098168 BB	20150804	US20120555909	20120723
US9229613 BB	20160105	US20120488039	20120604
US9235317 BB	20160112	US20120487765	20120604
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US9557876 BB	20170131	US20120677132	20121114
US9606708 BB	20170328	US20120555876	20120723
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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; US20120555845 20120723; US20120555657 20120723; US20120555876 20120723; US20120555909 20120723; US20120677093 20121114; US20120677093 20121114; US20140569475 20141212; US20140572405 20141216; US20150961227 20151207; US20170412899 20170123; US20170412347 20170123; US20170421725 20170201; US20170470652 20170327;

Cited documents: WO11069424 A1, US9098168 BB, US9009626 BB, US9007371 BB, US9003305 BB, US8997151 BB, US8990719 BB, US8990691 BB, US8984428 BB, US8977980 BB, US8976199 BB, US8930992 BB, US8904304 BB, US8856684 BB, US8856678 BA, US8826141 BB, US8812658 BA, US8806371 BB, US8799658 BA, US8736561 BB, US8725565 BA, US8683378 BB, US8669950 BB, US8656312 BB, US8639694 BA, US8635531 BB, US8584027 BB, US8549442 BB, US8539384 BB, US8539344 BB, US8533190 BB, US8516385 BA, US8473868 BA, US8458614 BA, US8438504 BB, US8423889 BA, US8416198 BB, US8365091 BB, US8341543 BB, US8140404 BA, US8131898 BB, US8082522 BB, US8006195 BA, US7996788 BB, US7916157 BA, US7890889 BB, US7817823 BA, US7797641 BB, US7769794 BB, US7743322 BB, US7724696 BA, US7689933 BA, US7675518 BA, US7667719 BB, US7664739 BB, US7663623 BB, US7663620 BB, US7439975 BB, US7434245 BA, US7320113 BB, US6971957 BB, US6948125 BB, US6934740 BA, US6847388 BB, US6421071 BA, US5933525 A, US5727129 A, US4730314 A, US2015100924 AA, US2015100880 AA, US2015095839 AA, US2015026825 AA, US2014288686 AA, US2014282263 AA, US2014282262 AA, US2014258849 AA, US2014250358 AA, US2014164985 AA, US2014096079 AA, US2014046809 AA, US2014033124 AA, US2014013283 AA, US2013346906 AA, US2013339907 AA, US2013314341 AA, US2013307792 AA, US20133227494 AA, US20133205210 AA, US2013198683 AA, US2013198682 AA, US2013198681 AA, US2013198668 AA, US2013198666 AA, US2013198665 AA, US2013198664 AA, US2013198663 AA, US2013198661 AA, US2013198634 AA, US2013198631 AA, US2013198261 AA, US2013194307 AA, US2013194269 AA, US2013183943 AA, US2013135309 AA, US2013104017 AA, US2013073932 AA, US2013073364 AA, US2013067510 AA, US2013019263 AA, US2012327009 AA, US2012311438 AA, US2012272181 AA, US2012272171 AA, US2012266130 AA, US2012266104 AA, US2012266068 AA, US2012233573 AA, US2012233565 AA, US2012227002 AA, US2012192118 AA, US2012192101 AA, US2012159393 AA, US2012159381 AA, US2012148088 AA, US2012131516 AA, US2012105489 AA, US2012084662 AA, US2012070017 AA, US2012054684 AA, US2012047432 AA, US2012026611 AA, US2012005623 AA, US2011302532 AA, US2011296344 AA, US2011276863 AA, US2011246614 AA, US2011234615 AA, US2011209100 AA, US2011202847 AA, US2011202834 AA, US2011187655 AA, US2011185314 AA, US2011167380 AA, US2011163971 AA, US2011163969 AA, US2011161818 AA, US2011157051 AA, US2011122159 AA, US2011122078 AA, US2011074699 AA, US2011063325 AA, US2011063248 AA, US2011057957 AA, US2011035703 AA, US2010313125 AA, US2010287494 AA, US2010277496 AA, US2010199180 AA, US2010174993 AA, US2010122214 AA, US2010122195 AA, US2010119180 AA, US2010114991 AA, US2010097338 AA, US2010085383 AA, US2010060666 AA, US2010048242 AA, US2009309846 AA, US2009300548 AA, US2009288032 AA, US2009271703 AA, US2009249239 AA, US2009249238 AA, US2009228832 AA, US2009228782 AA, US2009204928 AA, US2009201270 AA, US2009199091 AA, US2009172543 AA, US2009172532 AA, US2009132921 AA, US2009119590 AA, US2009100373 AA, US2009070710 AA, US2009061837 AA, US2009058872 AA, US2009007188 AA, US2009007017 AA, US2008276273 AA, US2008222540 AA, US2008174570 AA, US2008168404 AA, US2008155458 AA, US2008098330 AA, US2008092111 AA, US2008092054 AA, US2008082927 AA, US2008079972 AA, US2008065675 AA, US2008052742 AA, US2008052636 AA, US2008025529 AA, US2008022229 AA, US2007281733 AA, US2007271516 AA, US2007258642 AA, US2007226640 AA, US2007198950 AA, US2007150826 AA, US2007115300 AA, US2007110338 AA, US2007088681 AA, US2007073719 AA, US2006253777 AA, US2006236251 AA, US2006230354 AA, US2006174209 AA, US2006150091 AA, US2006059425 AA, US2006056334 AA, US2006036625 AA, US2006017735 AA, US2005262149 AA, US2005210403 AA, US2005177798 AA, US2005071783 AA, US2005055426 AA, US2005010955 AA, US2005005246 AA, US2004145603 AA, US2004095376 AA, US2004001106 AA, US2003236917 AA, US2003093545 AA, US2003090504 AA, US2003071800 AA, US2003051214 AA, US2003046401 AA, US2003001907 AA, US2002107892 AA, US2002087555 AA, US2002070982 AA, US2002029232 AA, US2001033303 AA, US2001030667 AA,

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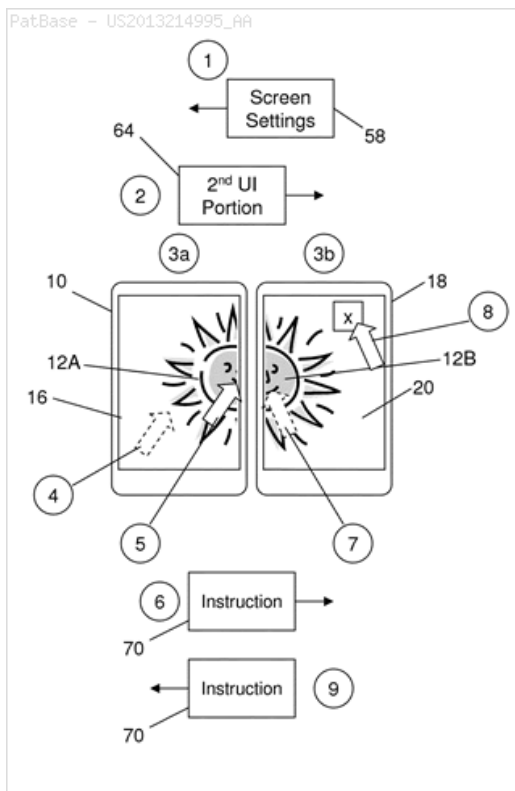
Inventor(s): (std): MATAS MICHAEL ; MELCHER CHARLES ; SARNER AUSTIN ; TSINTERIS KIMON

4) Family number: 54587123 (US2013214995A)

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

Abstract:

Source: US2013214995A 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.



International class (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 class: 345/1.3 715/744
Family:

Publication number	Pub. date	Application number	App. 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;

Cited documents: WO06043977 A1, WO05071530 A1, US9318043 BB, US9298362 BB, US9268518 BB, US9213480 BB, US9052760 BB, US8909299 BB, US8823640 BA, US8610641 BB, US8269691 BB, US8253649 BB, US7865468 BB, US7634780 BB, US7577912 BB, US7532196 BB, US7511682 BB, US7441200 BB, US5838914 A, US2016007417 AA, US2015338943 AA, US2014302773 AA, US2014009366 AA, US2013219303 AA, US2013194374 AA, US2012331200 AA, US2012206319 AA, US2012062475 AA, US2011252317 AA, US2011230178 AA, US2011197147 AA, US2011183654 AA, US2011126231 AA, US2011040718 AA, US2011025706 AA, US2010325559 AA, US2010235523 AA, US2010064228 AA, US2010060572 AA, US2010060549 AA, US2009273560 AA, US2009193351 AA, US2009160731 AA, US2009125634 AA, US2009055758 AA, US2009029690 AA, US2008256468 AA, US2007296643 AA, US2007242061 AA, US2007124503 AA, US2006259866 AA, US2006116164 AA, US2006088277 AA, US2006001593 AA, US2005168399 AA, US2004163046 AA, US2003090517 AA, EP2385689 A1, EP2337300 A1, EP2239921 A1, EP1868078 A1, EP1271289 A1, EP1271286 A2,

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

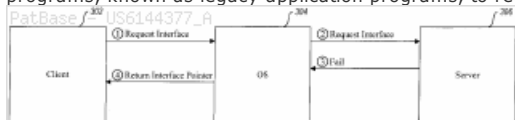
Inventor(s): (std): ERIKSSON MARCUS ; GAERDENFORS DAN ZACHARIAS ; GARDENFORS DAN ZACHARIAS ; LEWIN MATHIAS

5) Family number: 12658816 (US6144377A)

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

Abstract:

Source: US6144377A 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.



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

International class (IPC 1-7): G06F3/00

CPC: G06F9/451 G06F9/541

European class: G06F9/44W G06F9/54A

US class: 345/335 345/744 715/744

Family:

Publication number	Pub. date	Application number	App. date
US6144377 A	20001107	US19970815101	19970311

Priority: US19970815101 19970311;

Cited documents: US5838916 A, US5793368 A, US5758074 A, US5754830 A, US5708786 A, US5673403 A, US5634127 A, US5604896 A, US5548723 A,

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