

Search history

Search mouse para personas con discapacidad (Results 0)

1:

Search CONTROL DE CURSOR BASADO EN LOS MOVIMIENTOS DE LA CABEZA DE UN USUARIO (Results 1)

2:

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3:

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4:

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6:

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Search 7 and cheek (Results 1)

8:

Search 7 and processor (Results 56)

9:

Title: METHOD AND APPARATUS FOR MAPPING A INPUT LOCATION WITH A DISPLAYED FUNCTIONAL REPRESENTATION

Abstract: A user interface is disclosed which may take a data stream, or file having hyperlinks or functional text embedded therein. The CPU of the user interface may select distinct colors for each hyperlink so that such links are distinguishable. The color selection may be made so that each link has a button that has a matching color for at least one hyperlink. The user interface associates a button having a color with a hyperlink having the same color, such that when the button is actuated, programmed execution of the function associated with the hyperlink occurs. Thus a mapping of button, to color, to hyperlink, to function may be established.

Classifications:

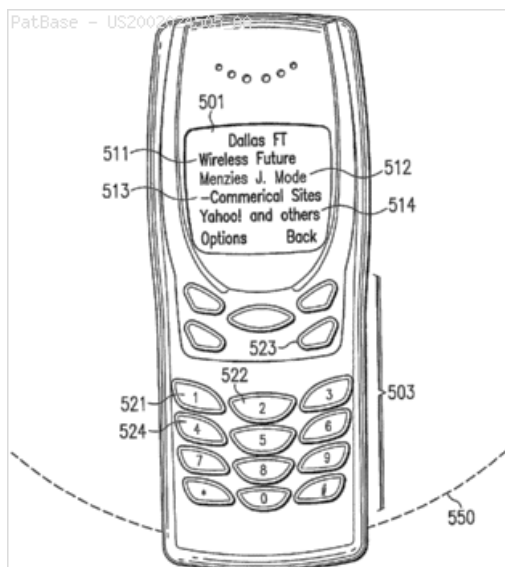
International (IPC 8-9): G06F17/30 G06F3/00 G06F3/02 G06F3/023 G06F3/033 G06F3/048 G09G5/00 (Advanced/Invention); H04B1/40 (Advanced/Non-invention); G06F17/30 G06F3/02 G06F3/023 G06F3/033 G06F3/048 G09G5/00 (Core/Invention)

International (IPC 1-7): G06F17/30 G06F3/00 G06F3/02 G06F3/023 G06F3/033 G09G5/00 H04B1/40

CPC: G06F3/0489 G06F3/0481

European: G06F3/0481 G06F3/0489

US: 345/169 345/170 345/172 455/566 455/575 455/575.1 715/205 715/273 715/501.01 715/513



Family:

Publication number	Publication date	Application number	Application date
AU2001273056 AA	20020114	AU20010273056	20010628
AU200173056 A1	20020114	AU20010073056	20010628
AU200173056 A5	20020114	AU20010073056	20010628
EP1356369 A2	20031029	EP20010952288	20010628
JP2004503008 T2	20040129	JP20020508188T	20010628
KR20020059384 A	20020712	KR20027002781	20010628
US2002024505 AA	20020228	US20010766022	20010119
US7184024 BB	20070227	US20010766022	20010119
WO0203187 A2	20020110	WO2001US20636	20010628
WO0203187 A3	20030904	WO2001US20636	20010628

Priority:

US20000607717 20000630 US20010766022 20010119 WO2001US20636 20010628

Probable Assignee: NOKIA MOBILE PHONES OY

Assignee(s): (std): DEEDS DOUGLAS ; NOKIA CORP ; NOKIA MOBILE PHONES LTD

Assignee(s): NOKIA MOBILE PHONES OY ; NOKIA CORPORATION ; DOUGLAS DEEDS ; EFTEKHARI JAMSHID

Inventor(s): (std): EFTEKHARI JAMSHID ; DEEDS DOUGLAS

Inventor(s): DOUGLAS DEEDS

Agent(s): TSURUTA JUNICHI; NISHIYAMA MASAYA; HIGUCHI SOTOJI; ISHIDA TAKASHI; HARRINGTON AND SMITH PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: CONTOURED THUMB TOUCH SENSOR APPARATUS

Abstract: Embodiments of an apparatus, system and method are described for implementing a contoured thumb touch sensor. An apparatus may comprise, for example, an input device configured on a side of an apparatus, the input device having a concave shape in a direction from a top of the apparatus to a bottom of the apparatus, the input device comprising a touch-sensitive surface operative to detect movement input. Other embodiments are described and claimed.

Classifications:

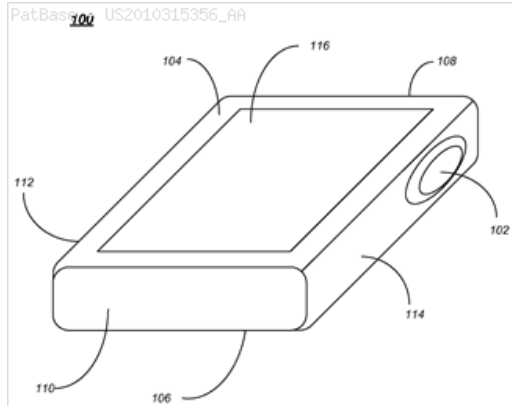
International (IPC 8-9): G06F3/00 G06F3/033 G06F3/041 G06F3/042 G06F3/044 G06F3/045 H04B1/40 H04M1/00 H04M1/23

H04W88/02 (Advanced/Invention);

G06F3/044 (Core/Non-invention)

CPC: G06F3/041 H04M1/0281 H04M1/236 G06F3/0414 G06F1/169 G06F3/03547 G06F3/042 G06F3/044 G06F2203/0339

US: 345/173 345/174



Family:

Publication number	Publication date	Application number	Application date
CN101968694 A	20110209	CN201010208647	20100613
DE102010018864 A1	20110303	DE201010018864	20100430
GB201009712 A0	20100721	GB20100009712	20100610
GB2471178 A1	20101222	GB20100009712	20100610
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JP2011008767 A2	20110113	JP20100097573	20100421
JP5182673 B2	20130417	JP20100097573	20100421
KR101194124 B1	20121024	KR20100056463	20100615
KR20100135194 A	20101224	KR20100056463	20100615
TW201108082 A	20110301	TW20100118875	20100610
TWI463384 B	20141201	TW20100118875	20100610
US2010315356 AA	20101216	US20090646220	20091223
US8674951 BB	20140318	US20090646220	20091223

Priority:

US20090187520P 20090616 US20090646220 20091223

Probable Assignee: INTEL CORP

Assignee(s): (std): FERREN BRAN ; HANSEN TIMOTHY E ; INTEL CORP

Inventor(s): (std): BRAN FERREN ; FERREN BRAN ; HANSEN TIMOTHY E ; HENSEN TIMOTHY E

Inventor(s): TIMOTHY E HENSEN

Agent(s): RYUKA IP LAW FIRM; KACVINSKY DAISAK PLLC; KACVINSKY DAISAK BLUNI PLLC

Title: USER INTERFACE APPARATUS AND METHOD FOR USER TERMINAL

Abstract: A handwriting-based User Interface (UI) apparatus in a user terminal supporting a handwriting-based memo function and a method for supporting the same are provided, in which upon receipt of a handwritten input on a memo screen from a user, the handwritten input is recognized, a command is determined from the recognized input, and an application corresponding to the determined command is executed.

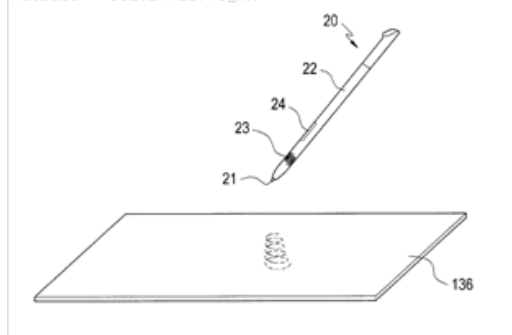
Classifications:

International (IPC 8-9): G06F17/00 G06F17/24 G06F17/30 G06F3/00 G06F3/01 G06F3/03 G06F3/033 G06F3/0354 G06F3/041 G06F3/048 G06F3/0481 G06F3/0482 G06F3/0483 G06F3/0484 G06F3/0488 G06F3/14 G06F9/44 G06K9/00 G06K9/20 G06K9/22 G06Q10/10 H04B1/40 H04M1/725 (Advanced/Invention); G06K9/00 (Advanced/Non-invention)

CPC: G06F3/03545 G06F3/01 G06F3/04883 G06F3/0484 G06F3/0481 G06F3/0482 G06F3/0483 G06F17/242 G06K9/222 H04M1/72519 G06F3/041 G06K9/2054 G06K2209/01 G06F1/1626 G06F1/1643 G06F1/1684 G06F3/14 G06F3/0233 G06F3/0412 G06F3/00 G06F3/048 G06F3/0488 G06F3/1431 G06F9/44 H04M1/26 G06F3/04817 H04M1/72583 G06F17/30879 G06F21/36 G06F2221/2111 G06K9/00416 G06K9/00422 G06K9/2081 G06K9/2063 G06Q10/10 G06Q10/00 G06F9/451 G06F9/4443

US: 1/1 345/156 345/173 715/268 715/780

PatBase - US2014015776_AA



Family:

Publication number	Publication date	Application number	Application date
AU2013287381 AA	20140116	AU20130287381	20130712
AU2013287390 AA	20140116	AU20130287390	20130715
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CN104428736 A	20150318	CN201380037329	20130715
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CN104471522 A	20150325	CN201380036747	20130711
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WO14011009 A1	20140116	WO2013KR06316	20130715

Priority:

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WO2013KR06316	20130715				

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD ; SAMSUNG ELEKTRONIKS KO LTD

Assignee(s): SAMSUNG ELEKTRONIKS KO ; SAMSUNG ELECTRONICS CO ; LEE JU YOUN ; BAE JOO YOON ; CHA SANG OK ; JUN JIN HA ; KIM HWA KYUNG ; KIM SUNG SOO

Inventor(s): (std): LEE JU YOUN ; SUNG SOO KIM ; SANG OK CHA ; JU YOUN LEE ; JOO YOON BAE ; JIN HA JUN ; HWA KYUNG KIM ; LIM KYUNG SOO ; LI DZU JOUN ; KIM SUNG SOO ; KIM KHVA KIUNG ; KIM HWA KYUNG ; KIM HAW KYUNG ; JUN JIN HA ; DZUN DZIN KHA ; CHA SANG OK ; BAE JOO YOON ; BAE DZOO JOON

Agent(s): GRIFFITH HACK; SMART AND BIGGAR; MARKS AND CLERK; LUBBERDINK PIM; NEDERLANDSCH OCTROOIBUREAU; JENKINS RICHARD GAVIN; BIRCHENOUGH LEWIS; OOO YURIDICHESKAYA GORODISSKIJ I PARTNER Y FA; JEFFERSON IP LAW LLP; LEE KEON JOO 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 IS IT JP KE KG KM KN KP 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 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

Title: FLEXIBLE DISPLAY APPARATUS AND DISPLAY METHOD THEREOF

Abstract: A flexible display apparatus includes a flexible display, a sensor which senses bending of the flexible display, and a controller which determines a screen activation region and a screen inactivation region from among a plurality of display regions of the flexible display based on the sensed bending, and displays a predetermined screen on the screen activation region.

Classifications:

International (IPC 8-9): G06F1/16 G06F3/00 G06F3/01 G06F3/03

G06F3/033 G06F3/041 G06F3/0481 G06F3/0487 G06F3/0488

G06F3/14 G06T11/60 G09F9/00 G09F9/30

H04M1/02 (Advanced/Invention);

H04M1/725 (Advanced/Non-invention)

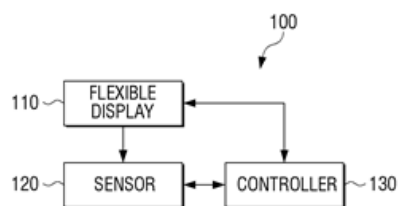
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G06F3/0481 H04M1/0268 H04M1/72519

US: 1/1 345/156 345/173

PatBase - US2014028596_AA



Family:

Publication number	Publication date	Application number	Application date
CN103578359 A	20140212	CN201310325966	20130730
EP2693319 A2	20140205	EP20130177749	20130724
EP2693319 A3	20170308	EP20130177749	20130724
KR20140016082 A	20140207	KR20120083285	20120730
US2014028596 AA	20140130	US20130953136	20130729
US2016370877 AA	20161222	US20160255623	20160902
US2018120954 AA	20180503	US20170857743	20171229
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Priority:

KR20120083285 20120730

US20130953136 20130729

US20160255623 20160902

US20170857743 20171229

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): SOHN JUNG JOO ; SEO JOON KYU ; LEE GEUN HO ; KIM HYUN JIN ; JUNG JOO SOHN ; HYUN JIN KIM ; GEUN HO LEE

Agent(s): GOVER RICHARD PAUL; STAAS AND HALSEY 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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: SEMANTIC LEVEL GESTURE TOOL TRACKING AND POSITIONING

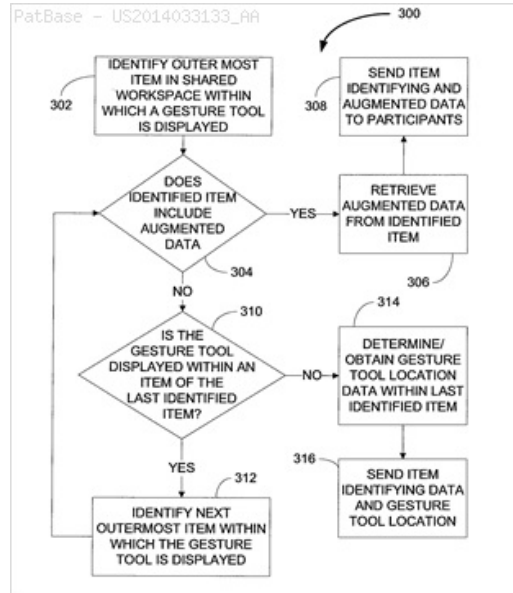
Abstract: Various embodiments described herein include one or more of systems, methods, and software operable to identify a location of or position a gesture tool, such as a mouse pointer or cursor, within a web conference display. Some embodiments may communicate an identified location of a gesture tool within a user interface control of a web conference presenter to web conference participants. The communicated location of the gesture tool may cause the gesture tool to be displayed in a corresponding location within a display of a web conference participant despite differences between a view of the presenter and participant. The gesture tool may include a pointer under the control of a mouse, a cursor, or other gesturing tool. Some embodiments include a web conference recording module operable to record data associated with a web conference, including gesture tool positioning data.

Classifications:

International (IPC 8-9): G06F3/00 G06F3/033 G06F3/0481
H04M3/56 (Advanced/Invention)

CPC: G06F3/04812 H04M3/567 H04M3/42221

US: 715/751 715/863

**Family:**

Publication number	Publication date	Application number	Application date
US2014033133 AA	20140130	US20070936736	20071107
US8990706 BB	20150324	US20070936736	20071107

Priority:

US20070936736 20071107

Probable Assignee:

ADOBE SYSTEMS INC

Assignee(s): (std):

ADOBE SYSTEMS INC ; PEGG NIGEL

Inventor(s): (std):

PEGG NIGEL

Agent(s):

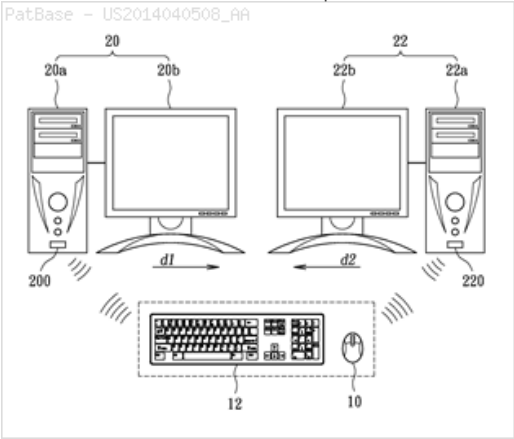
SHOOK HARDY AND BACON LLP

Title: INPUT DEVICE FOR CONTROLLING MULTIPLE COMPUTERS AND THE CONTROLLING METHOD THEREOF

Abstract: An input device for controlling multiple computers includes a storing unit, a sensing unit, a controlling unit, and a transmitting unit. The controlling unit calculates a moving direction and a displacement value of the input device according to the sensing unit to determine one of the computers which the input device is in control of and generates an input command for it. The input command includes identification of the controlled computer and is transmitted to multiple computers. The computer corresponding to the identification performs the input command. The moving direction corresponds to a pointer direction of the computer. The controlling unit accumulates the displacement value to be a first accumulated displacement value when the input device moves toward to a first pointer direction. When the first accumulated displacement value is larger than a threshold value, the controlling unit switches the input device to control another one of computers.

Classifications:

International (IPC 8-9): G06F3/00 G06F3/02 G06F3/023 G06F3/033 G06F3/038 G06F3/14 (Advanced/Invention)
CPC: G06F3/0227 G06F3/038
US: 710/18 710/33 710/5



Family:

Publication number	Publication date	Application number	Application date
CN103576884 A	20140212	CN201210269070	20120801
CN103576884 B	20170510	CN201210269070	20120801
US2014040508 AA	20140206	US20130793144	20130311
US9003069 BB	20150407	US20130793144	20130311

Priority:

CN201210269070 20120801

Probable Assignee: LITE ON ELECTRONICS GUANGZHOU LTD

Assignee(s): (std): LITE ON ELECTRONIC GUANGZHOU CO LTD ; LITE ON ELECTRONICS GUANGZHOU ; LITE ON ELECTRONICS GUANGZHOU CO LTD ; LITE ON TECHNOLOGY CORP ; LITEON TECHNOLOGY CORP

Assignee(s): LITE ON ELECTRONIC GUANGZHOU CO ; LITE ON ELECTRONICS GUANGZHOU LTD

Inventor(s): (std): CHEN ER HAO ; CHEN ERHAO ; YAN DAOCHENG ; YEN TAO CHENG

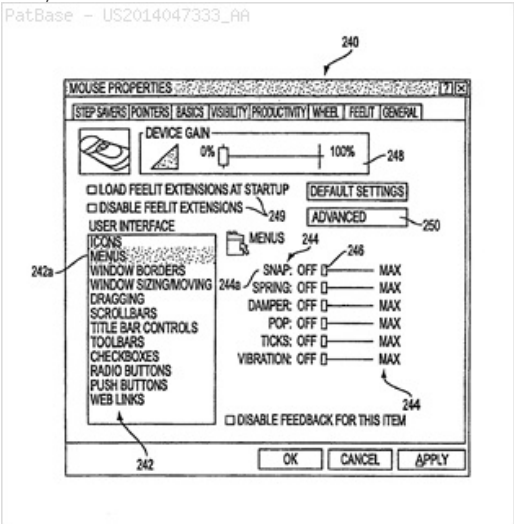
Agent(s): LI AND CAI INTELLECTUAL PROPERTY USA OFFICE

Title: FORCE FEEDBACK SYSTEM INCLUDING MULTI-TASKING GRAPHICAL HOST ENVIRONMENT AND INTERFACE DEVICE

Abstract: A force feedback system provides components for use in a force feedback system including a host computer and a force feedback interface device. An architecture for a host computer allows multi-tasking application programs to interface with the force feedback device without conflicts, where a single active application may output forces. A background application also provides force effects to be output and allows a user to assign force effects to graphical objects in a graphical user interface. Force feedback effects and structures are further described, such as events and enclosures.

Classifications:

International (IPC 8-9): G05B19/00 G06F3/00 G06F3/01 G06F3/033 G06F3/0338 G06F3/0354 G06F3/0481 G06F3/0484 H04L29/08 (Advanced/Invention)
CPC: G06F3/016 G06F3/0338 G06F3/04842 G05B19/00 G06F3/03543 G06F3/03548 G06F2203/013 G06F2203/014 G06F2203/0333 H04L67/02 H04L67/36 H04L69/329
US: 715/701



Family:

Publication number	Publication date	Application number	Application date
US2014047333 AA	20140213	US20130953101	20130729
US9740287 BB	20170822	US20130953101	20130729

Priority:

US19970970953 19971114 US20010974197 20011009 US20060504131 20060814
US20130953101 20130729

Probable Assignee: IMMERSION CORP

Assignee(s): (std): IMMERSION CORP

Inventor(s): (std): BEAMER JONATHAN L ; BRAUN ADAM C ; CHANG DEAN C ; ROSENBERG LOUIS B

Agent(s): MILES AND STOCKBRIDGE PC

Title: NON-TEXTUAL USER INPUT

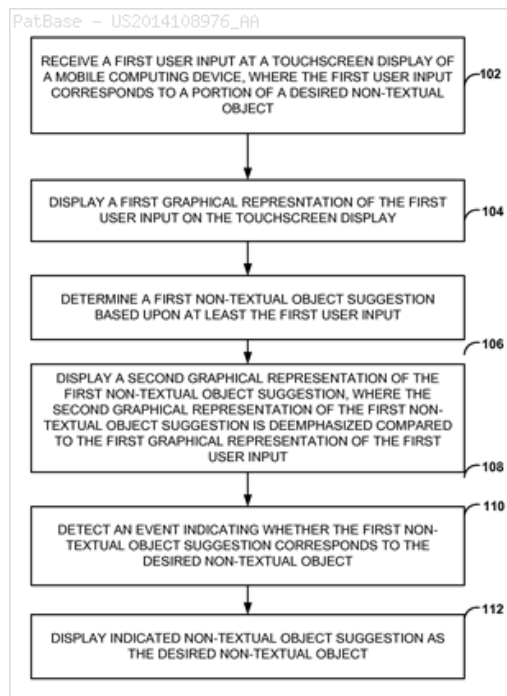
Abstract: A computing device receives a first user input at presence-sensitive display of the computing device, wherein the first user input corresponds to a portion of a desired non-textual object. The device displays a first graphical representation indicating the first user input at the touchscreen display, and determines a first non-textual object suggestion based upon at least the first user input. The device displays a second graphical representation indicating the first non-textual object suggestion, wherein the second graphical representation of the first non-textual object suggestion is displayed differently than the first graphical representation of the first user input, and detects an indication whether the first non-textual object suggestion corresponds to the desired non-textual object.

Classifications:

International (IPC 8-9): G06F3/00 G06F3/033 G06F3/0481 G06F3/0488 G06K9/00 G06K9/62 (Advanced/Invention)

CPC: G06F3/0481 G06K9/222 G06F3/04883 G06K9/00436

US: 382/209 715/705 715/764 715/765 715/863 715/866

**Family:**

Publication number	Publication date	Application number	Application date
CN104704462 A	20150610	CN201380053206	20130920
EP2888654 A1	20150701	EP20130773986	20130920
US2014108976 AA	20140417	US20120649956	20121011
US8935638 BB	20150113	US20120649956	20121011
WO14058597 A1	20140417	WO2013US60834	20130920

Priority:

US20120649956 20121011 WO2013US60834 20130920

Probable Assignee: GOOGLE INC

Assignee(s): (std): BROUSSEAU ARNAUD ; GOOGLE INC ; STEINER THOMAS

Assignee(s): GOOGLE LLC

Inventor(s): (std): BROUSSEAU ARNAUD ; STEINER THOMAS

Agent(s): READ MATTHEW CHARLES; SHUMAKER AND SIEFFERT PA; VREDEVELD ALBERT W

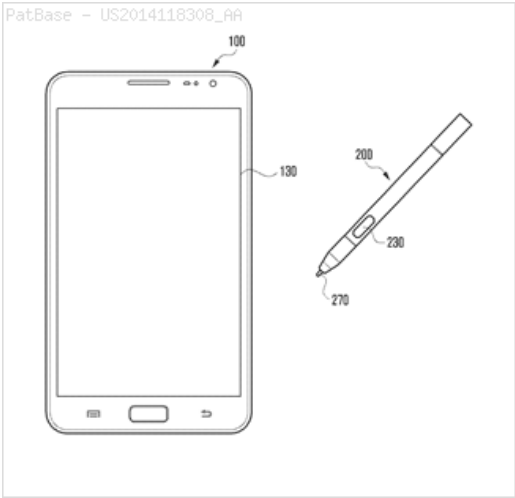
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX 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

Title: TOUCH PEN USING DELAY DEVICE AND TOUCH INPUT METHOD THEREOF AND TOUCH INPUT SYSTEM AND METHOD THEREOF

Abstract: A touch pen using a delay device and a touch input method thereof and a touch input system and a method thereof are provided. The touch pen includes a body, an antenna embedded on the body configured to receive a wireless signal from a mobile terminal, and a delay device configured to receive the wireless signal from the antenna and to output a reflection signal, corresponding to the received wireless signal, to the antenna after a predetermined time elapses, wherein the antenna transmits the reflection signal to the mobile terminal.

Classifications:

International (IPC 8-9): G06F3/00 G06F3/03 G06F3/033 G06F3/0354 G06F3/038 G06F3/041 G06F3/043 G06F3/046 (Advanced/Invention)
CPC: G06F3/0433 G06F3/03545 G06F3/033 G06F3/0412 G06F3/0416 G08C17/02 H04B1/40 G06F3/0383
US: 1/1 345/177 345/179



Family:

Publication number	Publication date	Application number	Application date
AU2013248253 AA	20140515	AU20130248253	20131025
BR102013027606 A2	20150623	BR20131027606	20131025
CA2831129 AA	20140425	CA20132831129	20131025
CN103777786 A	20140507	CN201310511617	20131025
CN103777786 B	20180306	CN201310511617	20131025
EP2725459 A2	20140430	EP20130190261	20131025
EP2725459 A3	20161228	EP20130190261	20131025
IN04807CH2013 A	20150807	IN2013CH04807	20131025
JP2014086094 A2	20140512	JP20130222663	20131025
JP6262987 B2	20180117	JP20130222663	20131025
KR20140052623 A	20140507	KR20120118947	20121025
TW201416923 A	20140501	TW20130138741	20131025
TWI621970 B	20180421	TW20130138741	20131025
US2014118308 AA	20140501	US20130063711	20131025
US9285900 BB	20160315	US20130063711	20131025
WO14065625 A1	20140501	WO2013KR09566	20131025

Priority:

KR20120118947 20121025

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): RHEE BONGJAE ; SAMSUNG ELECTRONICS CO

Inventor(s): (std): BONGJAE RHEE ; RHEE BONG JAE ; RHEE BONGJAE

Agent(s): GRIFFITH HACK; SMART AND BIGGAR; JENKINS RICHARD GAVIN; JEFFERSON IP LAW LLP; YOON DONG YOL

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 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

Title: APPARATUS AND METHOD OF MANAGING A PLURALITY OF OBJECTS DISPLAYED ON TOUCH SCREEN

Abstract: A method and an apparatus of managing a plurality of objects displayed on a touch screen are provided. The method includes determining whether at least two objects of the plurality of objects have been touched simultaneously on the touch screen, determining whether at least one of the at least two objects has moved on the touch screen, if the at least two objects have been touched simultaneously, determining the distance between the touched at least two objects, if the at least one of the at least two objects has moved on the touch screen, combining the touched at least two objects into a set, if the distance between the touched at least two objects is less than a predetermined value, and displaying the set on the touch screen.

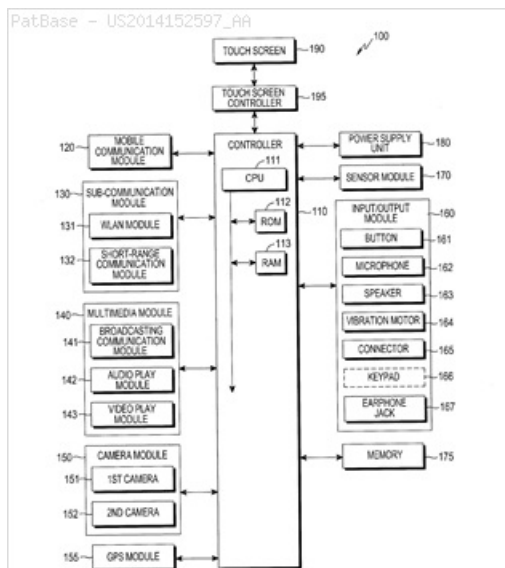
Classifications:

International (IPC 8-9): G06F G06F3/00 G06F3/03 G06F3/033 G06F3/041 G06F3/048 G06F3/0481 G06F3/0482 G06F3/0484 G06F3/0486 G06F3/0488 G09G5/00 G09G5/36 G09G5/377 H04B1/40 H04M1/247 (Advanced/Invention); G06F (Subclass/Invention)

CPC: G06F3/0486 G06F3/04883 G06F3/048 G06F3/04842 G06F2203/04104 H04B1/40 G06F3/0482 G06F3/0488 G06F3/0416 G06F3/04817 G06F2203/04808

US: 345/173 D14/488

Locarno class: 14/04



Family:

Publication number	Publication date	Application number	Application date
AU2013263767 AA	20140619	AU20130263767	20131128
BR102013030675 A2	20151027	BR20131030675	20131128
CA2835373 AA	20140530	CA20132835373	20131129
CN103853346 A	20140611	CN201310631446	20131129
EP2738662 A1	20140604	EP20130194966	20131128
IN01347KO2013 A	20140530	IN2013KO01347	20131128
JP2014110054 A2	20140612	JP20130247747	20131129
KR20140070040 A	20140610	KR20120138040	20121130
RU2013153254 A	20150610	RU20130153254	20131129
US2014152597 AA	20140605	US20130090476	20131126
US2016092063 AA	20160331	US20150962267	20151208
USD817998 S1	20180515	US20160556602F	20160302
WO14084668 A1	20140605	WO2013KR11016	20131129
ZA201308966 A	20141126	ZA20130008966	20131129

Priority:

KR20120138040 20121130 US20130090476 20131126 US20150962267 20151208
US20160556602F 20160302

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): LEE SEUNG MYUNG ; SAMSUNG ELECTRONICS CO

Inventor(s): (std): LEE SEUNG MYUNG ; SEUNG MYUNG LEE

Inventor(s): LEE SEUNGMYUNG

Agent(s): GRIFFITH HACK; MARKS AND CLERK; JENKINS RICHARD GAVIN; NSIP LAW; LEE KEON JOO 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 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

Title: ELECTRONIC DEVICE FOR PROVIDING HOVERING INPUT EFFECTS AND METHOD FOR CONTROLLING THE SAME

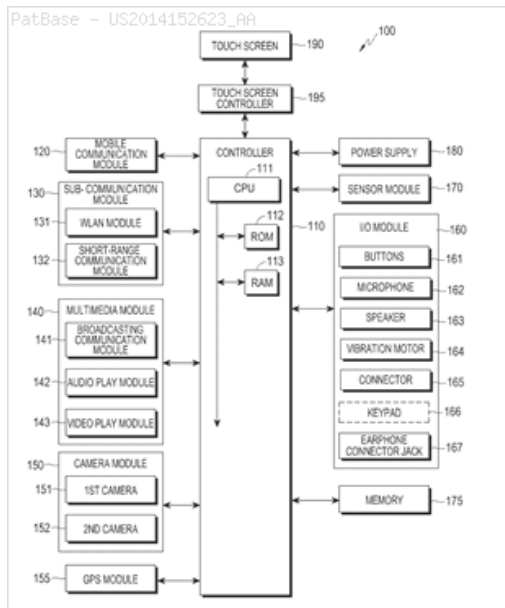
Abstract: An electronic device for hovering input effects and a method for controlling the same are provided. The method includes displaying an input area on a display of the electronic device, sensing at least one of a position of an input means on the display and a height of the input means above the display, and displaying a hovering input effect, corresponding to a hovering input using the input means, in the input area.

Classifications:

International (IPC 8-9): G06F3/00 G06F3/01 G06F3/02 G06F3/03 G06F3/033 G06F3/0354 G06F3/041 G06F3/042 G06F3/044 G06F3/046 G06F3/0481 G06F3/0484 G06F3/0487 G06F3/0488 G09G5/00 G09G5/36 (Advanced/Invention)

CPC: G06F3/042 G06F3/01 G06F3/041 G06F3/044 G06F3/14 G06F2203/04106 G06F3/03545 G06F3/0488 G06F2203/04108

US: 345/175



Family:

Publication number	Publication date	Application number	Application date
AU2013263830 AA	20140619	AU20130263830	20131129
BR102013030676 A2	20150127	BR20131030676	20131128
CA2835524 AA	20140530	CA20132835524	20131129
CN103853494 A	20140611	CN201310637046	20131202
EP2738651 A2	20140604	EP20130195070	20131129
EP2738651 A3	20160720	EP20130195070	20131129
IN01339KO2013 A	20140530	IN2013KO01339	20131126
JP2014110055 A2	20140612	JP20130248987	20131202
KR20140070150 A	20140610	KR20120138274	20121130
RU2013153227 A	20150610	RU20130153227	20131129
TW201432507 A	20140816	TW20130143351	20131128
US2014152623 AA	20140605	US20130092293	20131127
US9898139 BB	20180220	US20130092293	20131127

Priority:

KR20120138274 20121130

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): KWON SUNG ; LEE YU JIN ; SAMSUNG ELECTRONICS CO

Inventor(s): (std): KWON SUNG ; LEE YU JIN ; YU JIN LEE ; SUNG KWON

Agent(s): GRIFFITH HACK; MARKS AND CLERK; JENKINS RICHARD GAVIN; JEFFERSON IP LAW 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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: APPARATUS AND METHODS FOR IMAGE/SENSORY PROCESSING TO CONTROL COMPUTER OPERATIONS

Abstract: Apparatus and methods are disclosed for image and sensory processing to facilitate human interface at a computer terminal. The apparatus include a video camera adapted to capture images of user finger movement above the keyboard primarily in an image plane along X and Y axes substantially normal to the keyboard key-field plane, at least one thumb touch pad segment, and a controller. The methods included capturing the video images of user finger movement in the image plane, capturing user initiated sensory input indicative of selected functions and/or positioning modalities, and utilizing the captured images and sensory input for mapping user selected work product entry location at the monitor viewing screen and/or performing other functions.

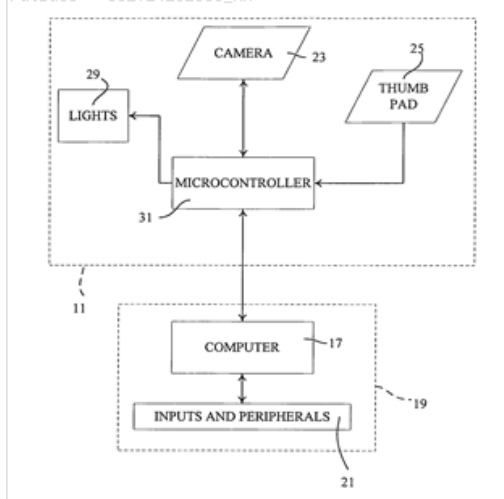
Classifications:

International (IPC 8-9): G06F3/00 G06F3/01 G06F3/02 G06F3/033 G06F3/042 G06F3/0484 (Advanced/Invention)

CPC: G06F3/017 G06F3/005 G06F3/04842 G06F3/0213

US: 345/163 345/168

PatBase - US2014152566_AA



Family:

Publication number	Publication date	Application number	Application date
CA2892487 AA	20150521	CA20132892487	20131129
US2014152566 AA	20140605	US20120694465	20121205
US2016187996 AA	20160630	US20160998491	20160111
WO14088604 A1	20140612	WO2013US00263	20131129

Priority:

US20120694465 20121205 WO2013US00263 20131129 US20160998491 20160111

Probable Assignee: SAFER BRENT A

Assignee(s): (std): SAFER BRENT A

Inventor(s): (std): SAFER BRENT A

Agent(s): MACRAE AND CO; BURDICK HAROLD A

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 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

Title: SENSORS AND SYSTEMS FOR THE CAPTURE OF SCENES AND EVENTS IN SPACE AND TIME

Abstract: Various embodiments comprise apparatuses and methods including a light sensor. The light sensor includes a first electrode, a second electrode, a third electrode, and a light-absorbing semiconductor in electrical communication with each of the first electrode, the second electrode, and the third electrode. A light-obscuring material to substantially attenuate an incidence of light onto a portion of the light-absorbing semiconductor is disposed between the second electrode and the third electrode. An electrical bias is to be applied between the second electrode, and the first and the third electrodes and a current flowing through the second electrode is related to the light incident on the light sensor. Additional methods and apparatuses are described.

Classifications:

International (IPC 8-9): G01J1/44 G06F3/00 G06F3/01 G06F3/033 G06F3/041 G06F3/042 G06F3/048 G06K9/00

G06K9/20 (Advanced/Invention);

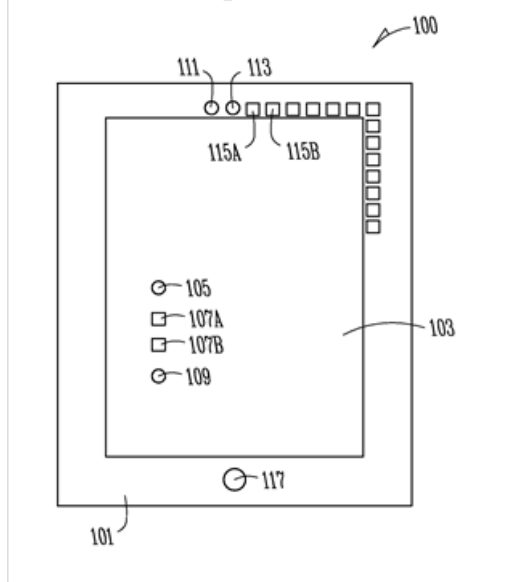
G06F3/041 (Advanced/Non-invention)

CPC: G06K9/00355 G06K9/2018 G06K9/209 G09G2360/144

G06F3/005 G06F3/041 G06F3/017

US: 1/1 345/173 382/224

PatBase - US2014161363_AA



Family:

Publication number	Publication date	Application number	Application date
CN105122271 A	20151202	CN201380072630	20131210
CN105122271 B	20180529	CN201380072630	20131210
EP2929486 A2	20151014	EP20130862223	20131210
EP2929486 A4	20161123	EP20130862223	20131210
US2014161363 AA	20140612	US20130101642	20131210
US2016342232 AA	20161124	US20160225413	20160801
US9405376 BB	20160802	US20130101642	20131210
US9898117 BB	20180220	US20160225413	20160801
WO14093334 A2	20140619	WO2013US74112	20131210
WO14093334 A3	20150723	WO2013US74112	20131210

Priority:

US20120735405P 20121210 US20130101642 20131210 WO2013US74112 20131210
US20160225413 20160801

Probable Assignee: INVISAGE TECHNOLOGIES INC

Assignee(s): (std): INVISAGE TECH INC ; INVISAGE TECHNOLOGIES INC ; LEE JESS JAN YOUNG ; SARGENT EDWARD HARTLEY ; TIAN HUI

Assignee(s): HORIZON TECHNOLOGY FINANCE CORP

Inventor(s): (std): H TIAN ; LEE JESS JAN YOUNG ; SARGENT EDWARD HARTLEY ; TIAN HUI

Agent(s): BERESFORD KEITH DENIS LEWIS ; SCHWEGMAN LUNDBERG AND WOESSNER PA; D KLIGLER IP SERVICES LTD; SCHEER BRADLEY W 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

Title: ACCURATE 3D FINGER TRACKING WITH A SINGLE CAMERA

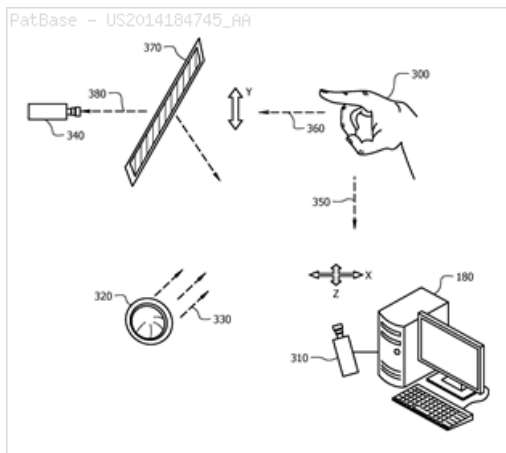
Abstract: An object tracking device includes a camera with a field of view oriented in a first direction and a mirror with a field of reflection oriented in a second direction. When an object is in a first region in the field of view of the electronic camera, the camera has a direct view of the object and a reflected view of the object from the mirror. A **processor** coupled with the camera is configured to receive a first image data set and a second image data set from the camera. The first image data set and the second image data set each include the direct view of the object and the reflected view of the object from the mirror.

Classifications:

International (IPC 8-9): G06F3/00 G06F3/01 G06F3/03 G06F3/033
H04N13/02 H04N5/225 H04N7/18 (Advanced/Invention)

CPC: G06F3/0304 G06F3/005 G06F3/017

US: 1/1 348/46



Family:

Publication number	Publication date	Application number	Application date
US2014184745 AA	20140703	US20120732223	20121231
US9323346 BB	20160426	US20120732223	20121231

Priority:

US20120732223 20121231

Probable Assignee: FUTUREWEI TECHNOLOGIES INC

Assignee(s): (std): FUTUREWEI TECHNOLOGIES INC

Inventor(s): (std): LV FENGJUN ; WANG PENGWEI ; ZHOU LIANG ; ZHU FENGQING

Agent(s): GRANT; ADAM J; CONLEY ROSE PC

Title: INFORMATION PROCESSING APPARATUS

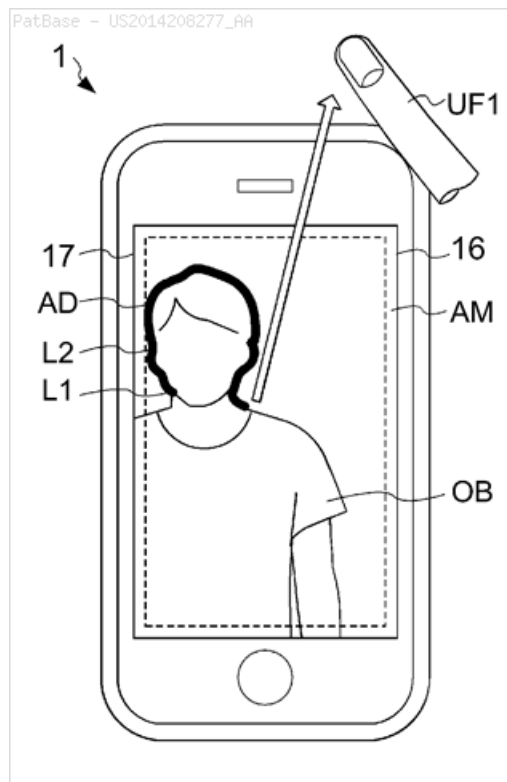
Abstract: An information processing apparatus of the present application includes a drawing unit that draws a line on an image in a drawing area displayed in a fixed mode, which displays an image by fixing a position of the image; a judgment unit that judges whether a position of the line during drawing by the drawing unit is positioned on a boundary indicating the drawing area; a mode switching unit that switches from the fixed mode to a predetermined mode other than the fixed mode in a case in which the position during drawing is judged as being positioned on the boundary indicating the drawing area by the judgment unit; and a display control unit that executes control to display the image based on the mode switched by the mode switching unit.

Classifications:

International (IPC 8-9): B60L G06F3/00 G06F3/033 G06F3/041 G06F3/048 G06F3/0484 G06F3/0485 G06F3/0488 G06F3/14 (Advanced/Invention); G06F3/14 (Advanced/Non-invention)

CPC: G06F3/0488 G06F3/0485 G06F2203/04808 G06F3/04845

US: 715/863



Family:

Publication number	Publication date	Application number	Application date
CN103941995 A	20140723	CN201410027685	20140121
CN103941995 B	20170922	CN201410027685	20140121
IN00163DE2014 A	20150313	IN2014DE00163	20140120
JP2014142707 A2	20140807	JP20130009452	20130122
JP5761216 B2	20150812	JP20130009452	20130122
KR101586559 B1	20160118	KR20140007327	20140121
KR20140094470 A	20140730	KR20140007327	20140121
US2014208277 AA	20140724	US20140159254	20140120
US9830069 BB	20171128	US20140159254	20140120

Priority:

JP20130009452 20130122

Probable Assignee: CASIO COMPUTER CO LTD

Assignee(s): (std): CASIO COMPUTER CO LTD

Assignee(s): CASIO COMPUT CO LTD ; CASIO COMPUTER CO

Inventor(s): (std): KOUICHI NAKAGOME ; MAKINO TETSUJI ; NAKAGOME KOICHI ; NAKAGOME KOUICHI ; TETSUJI MAKINO

Agent(s): HOLTZ HOLTZ AND VOLEK PC

Title: TOUCH PEN, ELECTRONIC DEVICE FOR RECOGNIZING THE TOUCH PEN, AND METHOD OF OPERATING THE ELECTRONIC DEVICE

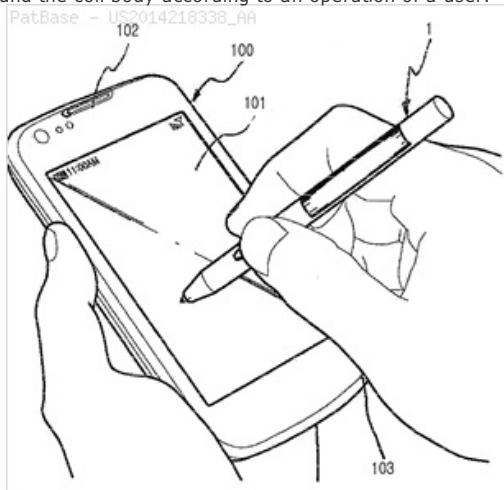
Abstract: An electronic device includes an electromagnetic inductive type touch pen and a pen touch panel for recognizing the touch pen. The touch pen includes a hollow housing having a certain length, a coil body installed in the housing and including a coil wound a plurality of times and having a certain length, a magnetic body installed to be separated from the coil body with a certain interval and inducing the coil body to generate a certain resonance frequency, and a button unit installed to expose a part thereof to the outside of the housing and to be flowable and inducing a variance in the resonance frequency of the coil body by controlling an electric length of the coil wound around the coil body according to an operation of a user.

Classifications:

International (IPC 8-9): G06F3/00 G06F3/03 G06F3/033 G06F3/0354 G06F3/038 G06F3/041 G06F3/046 G06F3/14 (Advanced/Invention)

CPC: G06F3/03545 G06F3/041 G06F3/046

US: 1/1 345/174



Family:

Publication number	Publication date	Application number	Application date
AU2014200307 AA	20140821	AU20140200307	20140117
AU2014200307 BB	20151210	AU20140200307	20140117
CA2841503 AA	20140807	CA20142841503	20140203
CA2841503 C	20171024	CA20142841503	20140203
CN103984424 A	20140813	CN201310637024	20131202
CN103984424 B	20170412	CN201310637024	20131202
DE602014018637 D1	20180125	DE201460018637T	20140117
EP2765491 A2	20140813	EP20140151553	20140117
EP2765491 A3	20161130	EP20140151553	20140117
EP2765491 B1	20171220	EP20140151553	20140117
IN00462CH2014 A	20160701	IN2014CH00462	20140201
JP2014154140 A2	20140825	JP20130250674	20131204
JP5965889 B2	20160810	JP20130250674	20131204
KR20140100744 A	20140818	KR20130013857	20130207
TW201439825 A	20141016	TW20140102847	20140127
TWI512552 B	20151211	TW20140102847	20140127
US2014218338 AA	20140807	US20140175775	20140207
US9395862 BB	20160719	US20140175775	20140207
WO14123330 A1	20140814	WO2014KR00928	20140204

Priority:

KR20130013857 20130207 EP20140151553 20140117

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO LTD SUWON SI ; SAMSUNG ELECTRONICS CO LTD129, SAMSUNG-ROYEONGTONG-GUGYEONGGI-DO 443-742SUWON-SIKR ; KIM JIN ; SAMSUNG ELECTRONICS CO

Inventor(s): (std): KIM JIN

Inventor(s): KIM JINKR ; JIN KIM

Agent(s): GRIFFITH HACK; SMART AND BIGGAR; GULDE AND PARTNER PATENT U RECHTSANWALTSKANZLEI MBB; GOVER RICHARD PAUL; HGF LTD; KWON HYUK ROK 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 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

Title: SYSTEM AND METHOD FOR LEARNING, COMPOSING, AND PLAYING MUSIC WITH PHYSICAL OBJECTS

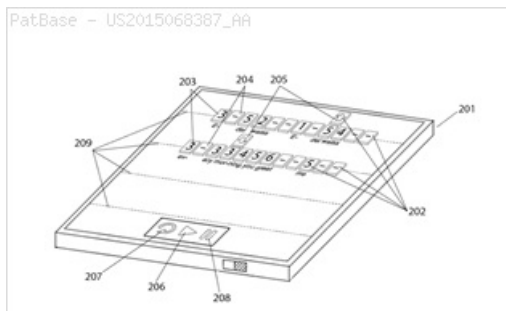
Abstract: The present invention discloses a system and method for learning, composing, accessing and playing music. The system includes a plurality of physical objects each includes an identifier and assigned a music-related indicator. The system further includes an interactive surface configured to recognize the identifier and location information relative to the interactive surface of a physical object placed on top of the interactive surface. Upon a plurality of objects being placed on the interactive surface to form a structural pattern, the **processor** is configured to derive a music piece from the structural pattern.

Classifications:

International (IPC 8-9): A63F13/21 A63F13/213 A63F13/2145 A63F13/23 A63F13/235 A63F13/25 A63F13/30 A63F13/55 A63F13/573 A63F13/77 A63F13/98 A63F3/00 A63F3/02 A63F9/06 A63F9/24 A63H19/14 A63H19/24 A63H33/04 A63H33/06 A63H33/26 G05D1/00 G05D1/02 G06F11/36 G06F17/30 G06F3/00 G06F3/01 G06F3/03 G06F3/033 G06F3/0354 G06F3/041 G06F3/042 G06F3/044 G06F3/048 G06F3/0487 G06F3/0488 G06F3/14 G06F3/16 G06F8/34 G06F9/06 G06F9/44 G06K19/077 G06K7/10 G09B1/06 G09B15/02 G09B15/04 G09B17/00 G09B19/02 G09B23/18 G09B5/06 G10G1/00 G10G3/04 G10H1/00 G10H1/053 G10H1/055 G10H1/18 G10H1/34 G10H1/38 G10H3/10 H02J17/00 H02J5/00 H04Q5/22 (Advanced/Invention)

CPC: G09B15/023 G06F8/34 G06F11/362 G06F2203/04101 G06F2203/04104 G06F3/03 G09B1/06 G10H1/0008 G10H2220/106 G10H2220/455 A63F2003/00662 A63F2003/00665 A63F2003/00678 A63F2009/2486 G06F3/0421 G06F3/0428 A63F13/23 A63F13/21 A63F13/213 G06F3/0416 G06F3/0487 G06K7/10356 A63F13/235 A63F9/24 G06F3/017 G06F3/04883 G06F3/03545 G06F3/016 G06F3/167 G06F3/005 G06F3/0414 A63F13/55 G06F2203/0337 A63F13/2145 A63F13/573 A63F13/98 G10H1/38 H02J5/005 G06F3/0488 G09B17/003 G09B17/006 G06F3/039 G10H2220/236 G10H2220/425 G10H2240/165 G06F2203/04809 G09B19/025 A63H33/042 A63F2009/2492 G10H1/0091 G10H1/344 A63F9/0612 G10H2210/211 G10H2210/225 A63H2200/00 A63F13/30 A63H19/14 A63H19/24 A63F13/25 A63F3/00075 A63F2003/00078 G06F3/046 A63F3/00643 A63F3/0421 A63F2003/00716 A63F2003/00842 A63F2003/00883 A63F2003/0418 A63F2009/2458 A63F13/95 G09B19/00 A63F3/00006 A63F3/02 A63F13/77 A63F2009/2439 A63F2009/2482 A63F2009/2489 A63F2009/2494 G09B5/06 G06F3/044 G06F8/35 G06F3/033 A63H33/06 G06F3/048 G05D1/0261 G05D2201/0214 G06F8/31 G06K7/10099 G06K19/07788 G06K7/10366 H02J50/10 G10H1/0066 G10H1/0551 G10H2220/241 G10H2220/461 G10H2220/275 G05D1/0022 G05D1/0212 G05D1/0287 G10H1/18

US: 1/1 340/10.1 345/174 434/169 446/91 463/29 463/32 463/40 463/9 715/863 717/105 717/109 84/471R 84/626 84/627 84/628 84/629



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Priority:

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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

Title: DEPTH-BASED USER INTERFACE GESTURE CONTROL

Abstract: Technologies for depth-based gesture control include a computing device having a display and a depth sensor. The computing device is configured to recognize an input gesture performed by a user, determine a depth relative to the display of the input gesture based on data from the depth sensor, assign a depth plane to the input gesture as a function of the depth, and execute a user interface command based on the input gesture and the assigned depth plane. The user interface command may control a virtual object selected by depth plane, including a player character in a game. The computing device may recognize primary and secondary virtual touch planes and execute a secondary user interface command for input gestures on the secondary virtual touch plane, such as magnifying or selecting user interface elements or enabling additional functionality based on the input gesture. Other embodiments are described and claimed.

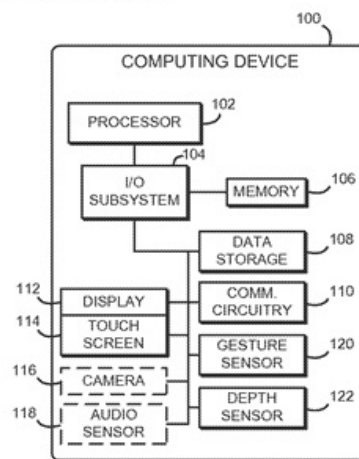
Classifications:

International (IPC 8-9): G06F3/00 G06F3/01 G06F3/03 G06F3/033 G06F3/0488 (Advanced/Invention); G06F3/048 (Advanced/Non-invention)

CPC: G06F3/04883 G06F3/0304 G06F3/005 G06F3/017

US: 1/1 715/863

PatBase - US2014282278_AA

**Family:**

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WO14142879 A1	20140918	WO2013US31367	20130314

Priority:

US20130976036 20130314 WO2013US31367 20130314

Probable Assignee: INTEL CORP

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Inventor(s): (std): ANDERSON GLEN J ; HURWITZ BARAK ; KAMHI GILA ; REIF DROR

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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 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 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

Title: MOBILE DEVICE EVENT CONTROL WITH DIGITAL IMAGES

Abstract: In one exemplary embodiment, a method includes receiving a digital image from a mobile device. A first element of the digital image and a second element of the digital image is identified. The first element of the digital image includes a user-selected content. The second element includes a depiction of a user action. An event trigger identified by the first element and the second element is determined. The event trigger includes a mobile device operating system command. A mobile device command is generated according to the event trigger. The mobile device command is communicated to a mobile operating system.

Classifications:

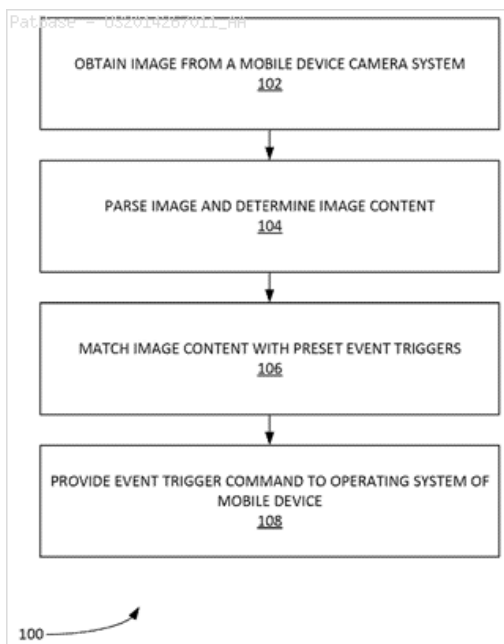
International (IPC 8-9): G06F3/00 G06F3/01 G06F3/03 G06T19/00 G06T19/20 (Advanced/Invention);

G06F3/033 G06F3/048 (Advanced/Non-invention)

CPC: G06F3/0304 G06F3/017 G06F3/033 G06F3/048 G06T19/20

G06F3/005 G06T19/006 G06F3/013 H04N5/2258

US: 345/156



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Publication number	Publication date	Application number	Application date
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US9519355 BB	20161213	US20130840120	20130315

Priority:

US20130840120 20130315

US20140161978 20140123

US20170438891 20170222

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