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Corp. 　　　　　　　　　　　　　　　Delaware District Court

1. United States Patent　7,479,949　　　　　　　January 20, 2009
Touch screen device, method, and graphical user interface
for determining commands by applying heuristics

Abstract
A computer-implemented method for use in conjunction with a computing device with a touch screen display comprises: detecting one or more finger contacts with the touch screen display, applying one or more heuristics to the one or more finger contacts to determine a command for the device, and processing the command.
Inventors:　Jobs; Steven P. (Palo Alto, CA),
Filed:　April 11, 2008

2. United States Patent　7,657,849　　　　　　　February 2, 2010
Unlocking a device by performing gestures on an unlock image

Abstract
A device with a touch-sensitive display may be unlocked via gestures performed on the touch-sensitive display. The device is unlocked if contact with the display corresponds to a predefined gesture for unlocking the device.
Inventors:　Chaudhri; Imran (San Francisco, CA),
Assignee: Apple Inc. (Cupertino, CA)
Filed:　December 23, 2005

3. United States Patent   5,455,599   October 3, 1995

Object-oriented graphic system

Abstract

An object-oriented graphic system is disclosed including a processor with an attached display, storage and object-oriented operating system. The graphic system builds a component object in the storage of the processor for managing graphic processing.

Inventors: Cabral; Arthur W. (Sunnyvale, CA),

Assignee: Taligent Inc. (Cupertino, CA)

Filed: April 4, 1995

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent is:

1. An object-oriented graphic system, comprising:

(a) a processor;

(b) a storage under the control of and attached to the processor;

(c) one or more graphic devices under the control of and attached to the processor;

(d) a grafport object in the storage of the processor;

(e) a graphic device object in the storage of the processor for managing one of the one or more graphic devices;

(f) a graphic object in the storage of the processor for managing graphic processing; and

(g) means for connecting the graphic device object to the grafport object to output graphic information on the one of the one or more graphic devices under the control of the graphic object.

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4. United States Patent   5,848,105   December 8, 1998

GMSK signal processors for improved communications capacity and quality

Abstract

A method and apparatus for separating and removing distortion from interfering co-channel signals and suppressing adjacent-channel interfering signals of the Gaussian Minimum-Shift Keyed (GMSK) or other MSK type with filtering structures that exploit the cyclostationarity of the received GMSK or other MSK signals in order to accommodate a greater number (or the same number, but with greater quality) of transmitted signals received by one or more antennas than can be accommodated by existing filters. The parameters in these filtering structures are adapted by either of two adaptation apparatus that exploit both the known training sequence that is transmitted in most wireless communications systems, and the constant modulus property exhibited by each of the transmitted GMSK or other MSK signals.
Inventors: Gardner; William A. (Yountville, CA), Schell; Stephan V. (Yountville, CA)

Filed: October 10, 1996

5. United States Patent   5,920,726   July 6, 1999

System and method for managing power conditions within a digital camera device

Abstract

A system and method for recovering from a power failure in a digital camera comprises a power manager for detecting and handling power failures, an interrupt handler for responsively incrementing a counter device, service routines which register to receive notification of the power failure, and a processor for evaluating the counter and providing notification of the power failure to the service routines which may then assist the digital camera to recover from the power failure.
Inventors: Anderson; Eric C. (San Jose, CA)

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: June 12, 1997

6. United States Patent   6,424,354   July 23, 2002

Object-oriented event notification system with listener registration of both interests and methods

Abstract

An event notification system for propagating object-change information. The notification system supports change notification without queues in an object-based application or operating system and can be scaled to propagate large numbers of events among a large plurality of objects.

Inventors: Matheny; John R. (Mountain View, CA),

Assignee: Object Technology Licensing Corporation (Cupertino, CA)

Filed: April 1, 1999

<u>Having thus described our invention, what we claim as new, and desire to secure by Letters Patent is:</u>

1. A method for operating a computer-implemented event notification system for propagating, among a plurality of objects, events representing changes in the objects, the operating method comprising the steps of: (a) creating, on behalf of a first object, connection information representing the first object's interest in, and an associated object method for, receiving notification of a change to a second object; (b) registering the connection information with a connection object; (c) creating an event representing a change in the second object, responsive to the change in the second object; and (d) notifying the first object of the event by invoking the associated object method for receiving notification registered with the connection object only if the event information corresponds to an interest registered on behalf of the first object.

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7. United States Patent   7,362,331   April 22, 2008

Time-based, non-constant translation of user interface objects between states

Abstract

The present invention relates to a method for moving objects within the graphical user interface (GUI) of an operating system in a manner that provides a transitional effect between window states, which is pleasing to the user.

Inventors: Ording; Bas (Sunnyvale, CA)

Assignee: Apple Inc. (Cupertino, CA)

Filed: January 5, 2001

<u>What is claimed is:</u>

1. A method for moving an object in a graphical user interface, comprising the steps of: a) determining a path of movement for the object along at least one axis, and a period of time for the movement along said path; b) establishing a non-constant velocity function along said axis for said period of time; c) calculating an instantaneous position for the object along said path in accordance with said function and the relationship of a current time value to said period of time; d) displaying said object at said calculated position; and e) iteratively repeating steps (c) and (d) during said period of time.

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8. United States Patent   7,633,076   December 15, 2009

Automated response to and sensing of user activity in portable devices

Abstract

The various methods and devices described herein relate to devices which, in at least certain embodiments, may include one or more sensors for providing data relating to user activity and at least one processor for causing the device to respond based on the user activity which was determined, at least in part, through the sensors.

Inventors: Huppi; Brian (San Francisco, CA),

Assignee: Apple Inc. (Cupertino, CA)

Filed: October 24, 2006

9. United States Patent   7,383,453   June 3, 2008

Conserving power by reducing voltage supplied to an instruction-processing portion of a processor

Abstract

One embodiment of the present invention provides a system that facilitates reducing static power consumption of a processor. During operation, the system receives a signal indicating that instruction execution within the processor is to be temporarily halted.

Inventors: Youngs; Lynn R. (Cupertino, CA)

Assignee: Apple, Inc (Cupertino, CA)

Filed: August 25, 2005

10. United States Patent 7,469,381 December 23, 2008

List scrolling and document translation, scaling, and rotation on a touch-screen display

Abstract

In accordance with some embodiments, a computer-implemented method for use in conjunction with a device with a touch screen display is disclosed. In the method, a movement of an object on or near the touch screen display is detected. In response to detecting the movement, an electronic document displayed on the touch screen display is translated in a first direction. If an edge of the electronic document is reached while translating the electronic document in the first direction while the object is still detected on or near the touch screen display, an area beyond the edge of the document is displayed. After the object is no longer detected on or near the touch screen display, the document is translated in a second direction until the area beyond the edge of the document is no longer displayed.

Inventors: Ording; Bas (San Francisco, CA)

Assignee: Apple Inc. (Cupertino, CA)

Filed: December 14, 2007

HTC   ITC

1. United States Patent 5,519,867 May 21, 1996

Object-oriented multitasking system

Abstract

An apparatus for enabling an object-oriented application to access in an object-oriented manner a procedural operating system having a native procedural interface is disclosed. The apparatus includes a computer and a memory component in the computer. A code library is stored in the memory component. The code library includes computer program logic implementing an object-oriented class library. The object-oriented class library comprises related object-oriented classes for enabling the application to access in an object-oriented manner services provided by the operating system. The object-oriented classes include methods for accessing the operating system services using procedural function calls compatible with the native procedural

interface of the operating system. The computer processes object-oriented statements contained in the application and defined by the class library by executing methods from the class library corresponding to the object-oriented statements. The object-oriented application includes support for multi-tasking.

Inventors: Moeller; Christopher P. (Los Altos, CA), Bolton; Eugenie L. (Sunnyvale, CA), Chernikoff; Daniel F. (Palo Alto, CA), Nakano; Russell T. (Sunnyvale, CA)

Assignee: Taligent, Inc. (Cupertino, CA)

Filed: July 19, 1993

2.United States Patent   5,566,337   October 15, 1996

Method and apparatus for distributing events in an operating system

OS

Abstract

In a computer including an operating system, an event producer for generating an event and detecting that an event has occurred in the computer and an event consumer which need to be informed when events occur in the computer, a system for distributing events including a store for storing a specific set of events of which the at least one event consumer is to be informed, an event manager control unit for receiving the event from the event producer, comparing the received event to the stored set of events, and distributing an appropriate event to an appropriate event consumer, and a distributor for receiving the event from the control unit and directing the control unit to distribute an appropriate event to an appropriate event consumer.

Inventors: Szymanski; Steven J. (Cupertino, CA), Saulpaugh; Thomas E. (San Jose, CA), Keenan; William J. (Redwood City, CA)

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: May 13, 1994

What is claimed is:

1. In a computer including at least one event producer for detecting that an event has occurred in the computer and generating an event and at least one event consumer which needs to be informed when events occur in the computer, a system for distributing events comprising:

storing means for storing a specific set of events of which said at least one event consumer is to be informed;

event manager control means for receiving the event from the event producer, comparing the received event to the stored set of events, and distributing an appropriate event to an appropriate event consumer; and

distributor means for receiving the event from the control means and directing said

control means to distribute an appropriate event to an appropriate event consumer.

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3.United States Patent　5,915,131　　　　　　　June 22, 1999

Method and apparatus for handling I/O requests utilizing separate programming interfaces to access separate I/O services

I/O　　　　　　　　　　I/O

Abstract

A computer system handling multiple applications wherein groups of I/O services are accessible through separate application programming interfaces. Each application has multiple application programming interfaces by which to access different families of I/O services, such as I/O devices.

Inventors:　Knight; Holly N. (La Honda, CA),

Sutton; Carl D. (Palo Alto, CA), Meretsky; Wayne N. (Los Altos, CA), Mimms; Alan B. (San Jose, CA)

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed:　May 5, 1995

4.United States Patent   5,929,852   July 27, 1999

Encapsulated network entity reference of a network component system

Abstract

A network-oriented component system efficiently accesses information from a network resource located on a computer network by creating an encapsulated network entity that contains a reference to that resource. The encapsulated entity is preferably implemented as a network component stored on a computer remotely displaced from the referenced resource. In addition, the encapsulated entity may be manifested as a visual object on a graphical user interface of a computer screen. Such visual manifestation allows a user to easily manipulate the entity in order to display the contents of the resource on the screen or to electronically forward the entity over the network.

Inventors: Fisher; Stephen (Menlo Park, CA),

Cleron; Michael A. (Menlo Park, CA), Bruck; Timo (Mountian View, CA)

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: January 15, 1998

5.United States Patent   5,946,647   August 31, 1999

ITC   HTC

System and method for performing an action on a structure in computer-generated data

Abstract

A system and method causes a computer to detect and perform actions on structures identified in computer data. The system provides an analyzer server, an application program interface, a user interface and an action processor. The analyzer server receives from an application running concurrently data having recognizable structures, uses a pattern analysis unit, such as a parser or fast string search function, to detect structures in the data, and links relevant actions to the detected structures. The application program interface communicates with the application running concurrently, and transmits relevant information to the user interface. Thus, the user interface can present and enable selection of the detected structures, and upon selection of a detected structure, present the linked candidate actions. Upon selection of an action, the action processor performs the action on the detected structure.

Inventors: Miller; James R. (Mountain View, CA), Bonura; Thomas (Capitola, CA), Nardi; Bonnie (Mountain View, CA), Wright; David (Santa Clara, CA)

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: February 1, 1996

6.United States Patent   5,969,705   October 19, 1999

Message protocol for controlling a user interface from an inactive application program

Abstract

Method and apparatus for a first process operative in a computer system controlling a user interface on a computer system display under control of a second process operative in the computer system. An event handler is installed for the second process, the event handler servicing events generated for controlling the user interface display under control of the second process. The first process may then perform a first set of functions in the computer system. The first process generates events for controlling the user interface display, the events related to the functions performed by the first process. The event handler receives the events generated by the first process and updates the user interface on the computer system display according to the events generated by the first process and received by the event handler.

Inventors: Fisher; Stephen (Menlo Park, CA), Trehus; Eric Mathew (Milpitas, CA)

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: March 13, 1997

7.United States Patent   6,275,983   August 14, 2001

Object-oriented operating system

                        OS

Abstract

An apparatus for enabling an object-oriented application to access in an object-oriented manner a procedural operating system having a native procedural interface is disclosed. The apparatus includes a computer and a memory component in the computer. A code library is stored in the memory component. The code library includes computer program logic implementing an object-oriented class library. The object-oriented class library comprises related object-oriented classes for enabling the application to access in an object-oriented manner services provided by the operating system. The object-oriented classes include methods for accessing the operating system services using procedural function calls compatible with the native procedural interface of the operating system. The computer processes object-oriented statements contained in the application and defined by the class library by executing methods

from the class library corresponding to the object-oriented statements.

Inventors: Orton; Debra Lyn (San Jose, CA),

Bolton; Eugenie Lee (Sunnyvale, CA), Chernikoff; Daniel F. (Palo Alto, CA), Goldsmith;

David Brook (Los Gatos, CA), Moeller; Christopher P. (Los Altos, CA)

Assignee: Object Technology Licensing Corp. (Cupertino, CA)

Filed: August 26, 1998

<u>What is claimed is:</u>

1. A computer system, comprising:

computer hardware for performing native system services;

a procedural operating system, having a native interface, for controlling the computer hardware to perform the native system services;

object oriented methods requiring native system services;

procedural program logic code, responsive to invocations of the object-oriented methods during runtime, for causing the procedural operating system to control the computer hardware to perform the required native system services;

executable program memory associated with the computer hardware for runtime execution of the procedural operating system, invocations of the object-oriented methods and related portions of the procedural program logic code;

means for making determinations during runtime execution if object-oriented methods to be invoked are present in the executable program memory; and

a runtime loader, responsive to the determinations, to selectively load required object-oriented methods into the executable program memory during runtime before invocation of the object-oriented methods.

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8.United States Patent   6,343,263   January 29, 2002
   ITC   HTC
Real-time signal processing system for serially transmitted data

Abstract
A data transmission system having a real-time data engine for processing isochronous streams of data includes an interface device that provides a physical and logical connection of a computer to any one or more of a variety of different types of data networks. Data received at this device is presented to a serial driver, which disassembles different streams of data for presentation to appropriate data managers. A device handler associated with the interface device sets up data flow paths, and also presents data and commands from the data managers to a real-time data processing engine. Flexibility to handle any type of data, such as voice, facsimile, video and the like, that is transmitted over any type of communication network with any type of real-time engine is made possible by abstracting the functions of each of the elements of the system from one another. This abstraction is provided through suitable interfaces that isolate the transmission medium, the data manager and the real-time engine from one another.
Inventors: Nichols; James B. (San Mateo, CA), Lynch; John (San Jose, CA)
Assignee: Apple Computer, Inc. (Cupertino, CA)
Filed: August 2, 1994

9.United States Patent   RE39,486   February 6, 2007

Extensible, replaceable network component system

Abstract
An extensible and replaceable network-oriented component system provides a platform

for developing networking navigation components that operate on a variety of hardware and software computer systems. These navigation components include key integrating components along with components configured to deliver conventional services directed to computer networks, such as Gopher-specific and Web-specific components. Communication among these components is achieved through novel application programming interfaces (APIs) to facilitate integration with an underlying software component architecture. Such a high-modular cooperating layered-arrangement between the network component system and the component architecture allows any existing component to be replaced, and allows new components to be added, without affecting operation of the network component system.

Inventors: Cleron; Michael A. (Menlo Park, CA),

Fisher; Stephen (Menlo Park, CA), Bruck; Timo (Mountain View, CA)

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: April 3, 2003

10.United States Patent   5,481,721   January 2, 1996

Method for providing automatic and dynamic translation of object oriented programming language-based message passing into operation system message passing using proxy objects

OS

Abstract

The present invention provides a method and apparatus for the distribution of objects and the sending of messages between objects that are located in different processes. Initially, a "proxy" object is created in the same process as a sender object. This proxy acts as a local receiver for all objects in the local program. When the proxy receives a message, the message is encoded and transmitted between programs as a stream of bytes. In the remote process, the message is decoded and executed as if the sender was remote. The result follows the same path, encoded, transmitted, and then decoded back in the local process. The result is then provided to the sending object.

Inventors: Serlet; Bertrand (Palo Alto, CA),

Boynton; Lee (Palo Alto, CA), Tevanian; Avadis (Mountain View, CA)

Assignee: NeXT Computer, Inc. (Redwood City, CA)

Filed: October 31, 1994

ITC   ALJ: administrative law judge
initial determination   HTC
                                    final initial determination

usp 5946647   6343263
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ITC   HTC
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1. A computer-based system for detecting structures in data and performing actions on detected structures,
comprising:
an input device for receiving data;
an output device for presenting the data;
a memory storing information including program routines including
an analyzer server for detecting structures in the data, and for linking actions to the detected structures;
a user interface enabling the selection of a detected structure and a linked action; and
an action processor for performing the selected action linked to the selected structure; and
a processing unit coupled to the input device, the output device, and the memory for controlling the execution of the program routines.

8. The system recited in claim 1, wherein
the user interface highlights detected structures.

15. In a computer having a memory storing actions,
a method for causing the computer to perform an action on a structure identified in computer data,
comprising the steps of:
receiving computer data;
detecting a structure in the data;
linking at least one action to the detected structure;
enabling selection of the structure and a linked action; and

executing the selected action linked to the selected structure.

19. The method recited in claim 15, wherein

the memory contains strings, and wherein

the step of detecting a structure further comprises the steps of retrieving a string from the memory and scanning the data to identify the string.

6343263

1. A signal processing system for providing a plurality of realtime services to and from a number of independent client applications and devices,

said system comprising:

a subsystem comprising a host central processing unit (CPU) operating in accordance with at least one application program and a device handler program, said subsystem further comprising an adapter subsystem interoperating with said host CPU and said device;

a realtime signal processing subsystem for performing a plurality of data transforms comprising a plurality of realtime signal processing operations; and

at least one realtime application program interface (API) coupled between the subsystem and the realtime signal processing subsystem to allow the subsystem to interoperate with said realtime services.

2. The signal processing system as set forth in claim 1, wherein

said signal processing system receives and transmits a plurality of datatypes over a plurality of different wide area networks (WANs).

24. The signal processing system of claim 1, wherein

said realtime signal processing subsystem comprises:

a realtime processor including an operating system for executing a plurality of realtime functions;

a realtime communications module which is independent of said realtime processor and is coupled to receive a plurality of communications commands from said application programs via said device handler program and said realtime API, said realtime communications module operating in response to said communications commands to issue a plurality of requests for realtime services to said realtime processor; and

a translation interface program which is specific to said realtime processor and is coupled to receive said requests for realtime services from said communications module and provide said requests to said realtime processor.

29. The signal processing system of claim 24, wherein

said realtime processor is embodied in a hardware device and includes realtime function libraries that are embodied in programmable software.

      HTC   ITC

1. United States Patent   5,541,988   July 30, 1996

Telephone dialler with a personalized page organization of telephone directory memory

Abstract

An advanced telephone dialler has been described, incorporating a fast retrieval and dial telephone directory. The system simplifies the use of the telephone directory by using a single sliding or rotary key for scanning and selection of the name and number to be dialled and one button for speed dialling of the selected number.

Inventors: Draganoff; Georgi H. (Mississauga, Ontario, CA)

Filed: June 27, 1994

2. United States Patent   6,058,183   May 2, 2000

Telephone dialler with a personalized page organization of telephone directory memory

Abstract

An advanced telephone dialler has been described, incorporating a fast retrieval and dial telephone directory.

Inventors: Draganoff; Georgi H. (Mississauga, Ontario, CA)

Filed: May 21, 1998

3. United States Patent   6,320,957   November 20, 2001

Telephone dialler with easy access memory

Abstract

An advanced telephone dialler has been described, incorporating a fast retrieval and dial telephone directory. The system simplifies the use of the telephone directory by

using a single sliding or rotary key for scanning and selection of the name and number to be dialled and one button for speed dialling of the selected number.

Inventors: Draganoff; Georgi H. (Mississauga, CA)

Assignee: GEZ Microsystems, Inc. (Toronto, CA)

Filed: October 9, 1997

4. United States Patent   6,999,800   February 14, 2006

Method for power management of a smart phone

Abstract

A method for power management of a smart phone. The method comprises steps of resetting the smart phone, searching for network service, operating the mobile phone system in standby mode and a PDA system in normal mode when connected to a network, switching the mobile phone system to connection mode when establishing communication with a remote terminal, switching the mobile phone system to sleep mode when the mobile phone system has been idle for a first time period,

Inventors: Peng; Yu-Chun (Taipei, TW),

Assignee: High Tech Computer Corp. (Taoyuan, TW)

Filed: July 1, 2003

5. United States Patent   7,716,505   May 11, 2010

Power control methods for a portable electronic device

Abstract

A power control method for a portable electronic device. The portable electronic device comprises a power supply unit and a volatile memory for storing data when the power supply unit supplies power thereto.

Inventors: Chao; Chun-Sheng (Taoyuan County, TW),

Assignee: HTC Corporation (Taoyuan, Taoyuan County, TW)

Filed: June 14, 2007

1. United States Patent   6,282,646   August 28, 2001

System for real-time adaptation to changes in display configuration

Abstract

A hot-plugging capability for video devices is achieved by shifting the responsibility for recognizing changes in the configuration of a display environment from a computer's operating system to a device manager. When an input/output device is added to or removed from the computer system, an interrupt signal informs a device manager of the fact that a change in configuration has occurred.

Inventors: Hendry; Ian (San Jose, CA), Anderson; Eric (Los Gatos, CA),

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: May 8, 1998

2. United States Patent   7,380,116   May 27, 2008

System for real-time adaptation to changes in display configuration

Abstract

A hot-plugging capability for video devices is achieved by shifting the responsibility for recognizing changes in the configuration of a display environment from a computer's operating system to a device manager.

Inventors: Hendry; Ian (San Jose, CA), Anderson; Eric (Los Gatos, CA),

Assignee: Apple Inc. (Cupertino, CA)

Filed: August 8, 2005

3. USP 7383453

4. USP 7657849

            ITC   HTC

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Motorola Mobility Inc.
U.S. District Court for the Northern District of Illinois, Chicago

1. United States Patent   5,311,516   May 10, 1994
Paging system using message fragmentation to redistribute traffic

Abstract

A selective call receiver (106) receives one or more message packets of a transmitted fragmented message, where each of the one or more message packets includes an address (1605) and message data (1610), and the message data (1610) includes an indication (1702) of whether more message packets are to be received for the fragmented message.

Inventors: Kuznicki; William J. (Coral Springs, FL),

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: November 23, 1992

2. United States Patent   5,319,712   June 7, 1994
Method and apparatus for providing cryptographic protection of a data stream in a communication system

Abstract

A method and apparatus for providing cryptographic protection of a data stream are described in accordance with the Open Systems Interconnection (OSI) model for a communication system.

Inventors: Finkelstein; Louis D. (Wheeling, IL),

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: August 26, 1993

3. United States Patent   5,490,230   February 6, 1996

Digital speech coder having optimized signal energy parameters

Abstract

A speech coder and decoder methodology wherein pitch excitation and codebook excitation source energies are represented by parameters that are readily transmissible with minimal transmission capacity requirements.

Inventors: Gerson; Ira A. (Hoffman Estates, IL), Jasiuk; Mark A. (Chicago, IL)

Filed: December 22, 1994

4. United States Patent   5,572,193   November 5, 1996

Method for authentication and protection of subscribers in telecommunications systems

Abstract

A method and apparatus for authentication between a subscriber unit and a communication unit is provided. The authentication process includes: maintaining an historic non-arbitrary value in the subscriber unit, generating an authentication message in the subscriber unit as a function of at least part of the historic non-arbitrary value, and transmitting the authentication message to the communication unit.

Inventors: Flanders; Mary B. (Louisville, CO), Finkelstein; Louis D.

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: August 22, 1994

5. United States Patent   6,175,559   January 16, 2001

Method for generating preamble sequences in a code division multiple access system

Abstract

The present invention provides a method for generating preamble sequences in a code division multiple access system. The method includes forming an outer code in a mobile station.

Inventors: Brown; Tyler (Mundelein, IL)

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: July 7, 1999

6. United States Patent   6,359,898   March 19, 2002

Method for performing a countdown function during a mobile-originated transfer for a packet radio system

Abstract

The method for transmitting a communication signal comprising a plurality of units of information includes

Inventors: Cudak; Mark Conrad (McHenry, IL),

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: August 28, 1998

Motorola Mobility Inc.

United States Patent   5,359,317   October 25, 1994

Method and apparatus for selectively storing a portion of a received message in a selective call receiver

Abstract

A method and apparatus allows a user to selectively store (604) a portion of a received message in a selective call receiver (100). The selective call receiver (100) includes first and second memory elements (118) for storing the received message and the portion thereof, respectively. The second memory element has a plurality of partitions (122, 124, 126, 128) corresponding to a plurality of file types. The user defines (FIG. 5) the portion of the received message stored in the first memory element, which portion is to be stored in the second memory element, and then selects (602) one of the plurality of partitions (122, 124, 126, 128) for storing the defined portion of the received message. The defined portion of the received message is then stored (604) in the selected one of the plurality of partitions (122, 124, 126, 128).

Inventors: Gomez; Fernando A. (West Palm Beach, FL),

Stair; Mark T. (Delray Beach, FL)

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: October 9, 1992

United States Patent   5,636,223   June 3, 1997

Methods of adaptive channel access attempts

Abstract

In a data communication system (100) including infrastructure (101) arranged to

communicate with a plurality of terminals (103) over a channel (109), a method of adaptable channel access practiced at a terminal (103) including determining an access priority value (303), responsive thereto ascertaining when the channel is available (305), and then executing a channel access attempt (307). The access priority value is determined with information received by the terminal or information available to the terminal.

Inventors: Reardon; Karl A. (Surrey, CA), Fraser; Bud (Vancouver, CA)

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: June 27, 1995

United States Patent   6,246,697   June 12, 2001

Method and system for generating a complex pseudonoise sequence for processing a code division multiple access signal

Abstract

In a wireless communication system, a chip time is selected in a complex pseudonoise (PN) sequence generator. For a next chip time following the selected chip time, a phase difference between a previous complex PN chip and a next complex PN chip is restricted to a preselected phase angle. In one embodiment, every other chip time is selected and the preselected angle is 90 degrees.

Inventors: Whinnett; Nicholas William (Paris, FR), Laird; Kevin Michael (Keller, TX)

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: January 24, 1998

United States Patent   6,246,862   June 12, 2001

Sensor controlled user interface for portable communication device

Abstract

A portable communication device (100) that has a processing section (208) to control operation of the portable communication device (100) in response to an input signal (TS_INPUT) and a user interface having a touch sensitive input device (128) for generating the input signal (TS_INPUT), also has a sensor (134). The sensor (134) disables the touch sensitive input device (128) from generating the input signal (TS_INPUT) when the portable communication device (100) is positioned in close proximity to a user and, thereby, preventing inadvertent actuations while the user holds the portable communication device (100) against his or her head to facilitate communication.

Inventors: Grivas; Chris J. (Crystal Lake, IL),

Alameh; Rachid M. (Schaumburg, IL), He; Fan (Grayslake, IL)

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: February 3, 1999

United States Patent   6,272,333   August 7, 2001

Method and apparatus in a wireless communication system for controlling a delivery of data

Abstract

A subscriber unit (122) maintains an application registry (226) for registering (404) applications accessible to the subscriber unit. A fixed portion (102) of a wireless communication system keeps (514) a current copy (324) of the application registry of the subscriber unit, and checks (520) the current copy of the application registry in response to having data to send to the subscriber unit. The fixed portion sends (526) the data only when the fixed portion determines (522) that an application compatible with the data is accessible to the subscriber unit.

Inventors: Smith; Dwight Randall (Grapevine, TX)

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: June 12, 1998

United States Patent   7,751,826   July 6, 2010

System and method for E911 location privacy protection

E

Abstract

The invention relates to a system that enables power to be selectively applied to GPS circuitry in a cellular telephone or other mobile device only when a specific user input is detected. In one embodiment, power to the GPS circuitry may be enabled only when the user strikes the keys "9-1-l." In other embodiments, other types of GPS enablement or disablement may be employed, such as selectively decoupling the GPS antenna. In another embodiment, the user may depress a privacy bypass button, which alternately enables and disables power to the GPS circuitry. Cellular telephones or other communication devices may therefore activate GPS location service during an emergency call, or when a user wishes to allow their location to be determined, but protect the privacy of that user's location and movement at other times.

Inventors: Gardner; Michael R. (Plantation, FL),

Ballantyne; Wayne W. (Coconut Creek, FL), Merchant; Zaffer S. (Parkland, FL)

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: October 24, 2002

Motorola Mobility Inc.

U.S. District Court for the Southern District of Florida, Miami

1. United States Patent   5,710,987   January 20, 1998

Receiver having concealed external antenna

Abstract

A radiotelephone/pager unit (100) includes a housing enclosing (102, 104) radiotelephone circuitry (224) coupled to a radiotelephone antenna (108) operable at radiotelephone frequencies and pager circuitry (218) coupled to a pager antenna (212) operable at pager frequencies.

Inventors: Paulick; Thomas Eugene (Palatine, IL)

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: June 2, 1995

2. United States Patent   5,754,119   May 19, 1998

Multiple pager status synchronization system and method

Abstract

Status changes made on first pager (130 and 530) are wirelessly communicated to an infrastructure (110 and 510) which communicates the status changes to other pagers (150 and 550) so that the other pagers make corresponding status changes.

Inventors: Deluca; Michael J. (Boca Raton, FL),

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: August 31, 1995

3. United States Patent   5,958,006   September 28, 1999

Method and apparatus for communicating summarized data

Abstract

In a main embodiment, select and summary (S&S) indices (213, 228) are used to provide user flexibility in reviewing and requesting otherwise filtered data.

Inventors: Eggleston; Gene (Cary, IL), Hansen;

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: December 19, 1995

4. United States Patent   6,008,737   December 28, 1999

Apparatus for controlling utilization of software added to a portable communication device

Abstract

An apparatus at a fixed portion (102) of a communication system controls utilization of software (398) in a portable communication device (122) that includes a transceiver (302) for communicating with the fixed portion.

Inventors: Deluca; Michael J. (Boca Raton, FL),

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: June 24, 1996

5. United States Patent   6,101,531   August 8, 2000

System for communicating user-selected criteria filter prepared at wireless client to communication server for filtering data transferred from host to said wireless client

Abstract

In a main embodiment, prestage filtering is applied via user-definable filter parameters (e.g., reject, pass, or granularity filters) on data being transferred between a communication unit (201) and communication server (220).

Inventors: Eggleston; Gene (Cary, IL),

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: April 15, 1998

6. United States Patent   6,377,161   April 23, 2002

Method and apparatus in a wireless messaging system
for facilitating an exchange of address information

Abstract

A first portable messaging unit (PMU) (122) sends (502) address information to a second PMU through a wireless messaging system, and the second PMU receives (504) the address information.

Inventors: Gromelski; Lisa Jane (Fort Worth, TX),

United States Patent   5,583,560   December 10, 1996

Method and apparatus for audio-visual interface for the selective display of listing information on a display

Abstract

An interactive audio-visual (A/V) transceiver is advantageously coupled to a television and/or telephone (T/T) cable, a TV, a video recorder (VCR), and other A/V devices. The A/V transceiver switches data between a program/service provider and the connected A/V devices. In one embodiment, the transceiver includes three primary modules, a main module including a CPU, a system bus, system memory, an infra-red (IR) control unit, an audio-visual bus, an A/V decoder, an A/V processor, and an A/V encoder, an A/V connect module including a number of tuner/demodulators and a switch, and an optional CD ROM module. The A/V transceiver hardware is complemented with an operating system and software program which supports the functions provided in the A/V user interface. Additionally, a remote control device is provided to communicate with the A/V transceiver to interactively manage selection of program and service sources, selection program and service offerings from any selected source, viewing of selected program offerings, and interaction with selected service offerings. The remote control device is advantageously provided with a basic A/V control button group, an interactive control button group, an auxiliary control button group and a numeric key pad to facilitate control of the transceiver. The interactive control button group includes an info button, a list button, a categories button, a pix button, a mark button, a jump button, and a pointing device consisting of up, down, left, and right arrow buttons, and a center select button.

Inventors: Florin; Fabrice (Mill Valley, CA),
Buettner; Michael (Burlingame, CA), Corey; Glenn (San Rafael, CA), Fritsche; Janey (Mill Valley, CA), Maresca; Peter (Palo Alto, CA), Miller; Peter (Los Altos Hills, CA), Purdy; Bill (San Anselmo, CA), Sharpe; Stuart (San Francisco, CA), West; Nick (San Francisco, CA)
Assignee: Apple Computer, Inc. (Cupertino, CA)
Filed: June 22, 1993

Method and apparatus for audio-visual interface for the display of multiple levels of information on a display

Abstract
An interactive audio-visual (A/V) transceiver is advantageously coupled to a television and/or telephone (T/T) cable, a TV, a video recorder (VCR), and other A/V devices. The A/V transceiver switches data between a program/service provider and the connected A/V devices. In one embodiment, the transceiver includes three primary modules, a main module including a CPU, a system bus, system memory, an infra-red (IR) control unit, an audio-visual bus, an A/V decoder, an A/V processor, and an A/V encoder, an A/V connect module including a number of tuner/demodulators and a switch, and an optional CD ROM module. The A/V transceiver hardware is complemented with an operating system and software program which supports the functions provided in the A/V user interface. Additionally, a remote control device is provided to communicate with the A/V transceiver to interactively manage selection of program and service sources, selection program and service offerings from any selected source, viewing of selected program offerings, and interaction with selected service offerings. The remote control device is advantageously provided with a basic A/V control button group, an interactive control button group, an auxiliary control button group and a numeric key pad to facilitate control of the transceiver. The interactive control button group includes an info button, a list button, a categories button, a pix button, a mark button, a jump button, and a pointing device consisting of up, down, left, and right arrow buttons, and a center select button.

Purdy; Bill (San Anselmo, CA), Sharpe; Stuart (San Francisco, CA), West; Nick (San Francisco, CA)

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: June 22, 1993

United States Patent   5,621,456   April 15, 1997

Methods and apparatus for audio-visual interface for the display of multiple program categories

Abstract

An interactive audio-visual (A/V) transceiver is advantageously coupled to a television and/or telephone (T/T) cable, a TV, a video recorder (VCR), and other A/V devices. The A/V transceiver switches data between a program/service provider and the connected A/V devices. In one embodiment, the transceiver includes three primary modules, a main module including a CPU, a system bus, system memory, an infra-red (IR) control unit, an audio-visual bus, an A/V decoder, an A/V processor, and an A/V encoder, an A/V connect module including a number of tuner/demodulators and a switch, and an optional CD ROM module. The A/V transceiver hardware is complemented with an operating system and software program which supports the functions provided in the A/V user interface. Additionally, a remote control device is provided to communicate with the A/V transceiver to interactively manage selection of program and service sources, selection program and service offerings from any selected source, viewing of selected program offerings, and interaction with selected service offerings. The remote control device is advantageously provided with a basic A/V control button group, an interactive control button group, an auxiliary control button group and a numeric key pad to facilitate control of the transceiver. The interactive control button group includes an info button, a list button, a categories button, a pix button, a mark button, a jump button, and a pointing device consisting of up, down, left, and right arrow buttons, and a center select button.

Inventors: Florin; Fabrice (Mill Valley, CA), Buettner; Michael (Burlingame, CA), Corey; Glenn (San Rafael, CA), Fritsche; Janey (Mill Valley, CA), Maresca; Peter (Palo Alto, CA), Miller; Peter (Los Altos Hills, CA), Purdy; Bill (San Anselmo, CA), Sharpe; Stuart (San Francisco, CA), West; Nick (San Francisco, CA)

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: June 22, 1993

United States Patent   7,380,116   May 27, 2008
System for real-time adaptation to changes in display configuration
　HTC

United States Patent   7,657,849   February 2, 2010
Unlocking a device by performing gestures on an unlock image
　　HTC

iPhone

U.S. District Court for the District of
Delaware
 declaration judgment

1. United States Patent   5,455,599   October 3, 1995
Object-oriented graphic system
　HTC

2.United States Patent   5,519,867   May 21, 1996
Object-oriented multitasking system

　HTC　ITC

3.United States Patent   5,566,337   October 15, 1996
Method and apparatus for distributing events in an operating system
OS
　HTC　ITC

4.United States Patent   5,915,131   June 22, 1999
Method and apparatus for handling I/O requests utilizing separate programming interfaces
to access separate I/O services
　　　　　　　　　　　　　　　　　　I/O　　　　　　　　　　　　I/O

　HTC　ITC

5.United States Patent   5,929,852   July 27, 1999

Encapsulated network entity reference of a network component system

　HTC　ITC

6.United States Patent　5,946,647　　　　　　　　August 31, 1999
System and method for performing an action on a structure in computer-generated data

　HTC　ITC

7.United States Patent　5,969,705　　　　　　　　October 19, 1999
Message protocol for controlling a user interface from an inactive application program

　HTC　ITC

8.United States Patent　6,275,983　　　　　　　　August 14, 2001
Object-oriented operating system
　　　　　　　　　　　OS

9.United States Patent　6,343,263　　　　　　　　January 29, 2002
Real-time signal processing system for serially transmitted data

　HTC　ITC

10.United States Patent　6,424,354　　　　　　　　July 23, 2002
Object-oriented event notification system with listener registration of both interests and methods
　HTC

11.United States Patent　RE39,486　　　　　　　　February 6, 2007
Extensible, replaceable network component system

　HTC　ITC

12.United States Patent　5,481,721　　　　　　　　January 2, 1996
Method for providing automatic and dynamic translation of object oriented programming language-based message passing into operation system message passing using proxy objects

HTC　ITC

Wisconsin　Western
District Court

United States Patent　7,812,828　　　　　October 12, 2010
Ellipse fitting for multi-touch surfaces

Abstract
Apparatus and methods are disclosed for simultaneously tracking multiple finger and palm contacts as hands approach, touch, and slide across a proximity-sensing, multi-touch surface. Identification and classification of intuitive hand configurations and motions enables unprecedented integration of typing, resting, pointing, scrolling, 3D manipulation, and handwriting into a versatile, ergonomic computer input device.
Inventors:　Westerman; Wayne (San Francisco, CA),
Elias; John G. (Townsend, DE)
Assignee: Apple Inc. (Cupertino, CA)
Filed:　February 22, 2007

United States Patent　7,663,607　　　　　February 16, 2010
Multipoint touchscreen

Abstract
A touch panel having a transparent capacitive sensing medium configured to detect multiple touches or near touches that occur at the same time and at distinct locations in the plane of the touch panel and to produce distinct signals representative of the location of the touches on the plane of the touch panel for each of the multiple touches is disclosed.
Inventors:　Hotelling; Steve (San Jose, CA),
Strickon; Joshua A. (San Jose, CA), Huppi; Brian Q. (San Francisco, CA)
Assignee: Apple Inc. (Cupertino, CA)

Filed: May 6, 2004

<u>What is claimed is:</u>

1. A touch panel comprising a transparent capacitive sensing medium configured to detect multiple touches or near touches that occur at a same time and at distinct locations in a plane of the touch panel and to produce distinct signals representative of a location of the touches on the plane of the touch panel for each of the multiple touches, wherein the transparent capacitive sensing medium comprises: a first layer having a plurality of transparent first conductive lines that are electrically isolated from one another; and a second layer spatially separated from the first layer and having a plurality of transparent second conductive lines that are electrically isolated from one another, the second conductive lines being positioned transverse to the first conductive lines, the intersection of transverse lines being positioned at different locations in the plane of the touch panel, each of the second conductive lines being operatively coupled to capacitive monitoring circuitry; wherein the capacitive monitoring circuitry is configured to detect changes in charge coupling between the first conductive lines and the second conductive lines.

(A)

(   )   (   ).

United States Patent   5,379,430   January 3, 1995

Object-oriented system locator system

Abstract

A method and system for adding system components (documents, tools, fonts, libraries, etc.) to a computer system without running an installation program. A location framework is employed to locate system components whose properties match those specified in a search criteria. The framework receives notification from the system when system components whose properties match the search criteria are added to or removed from the system.

Inventors: Nguyen; Frank T. (Campbell, CA)

Assignee: Taligent, Inc. (Cupertino, CA)

Filed: August 4, 1993

Android   Galaxy   iOS

Apple Inc.   Samsung Electronics Co.

San Jose

United States Patent   6,493,002   December 10, 2002

Method and apparatus for displaying and accessing control and status information in a computer system

Abstract

An interactive computer-controlled display system having a processor, a data display screen, a cursor control device for interactively positioning a cursor on the data display screen, and a window generator that generates and displays a window on a data display screen. The window region provides status and control information in one or more data display areas. The individiual data display areas may be controlled through the use of controls and indicators on the control strip itself using cursor control keys.

Inventors: Christensen; Steven W. (Milpitas, CA)

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: March 20, 1997

United States Patent   7,469,381   December 23, 2008

List scrolling and document translation, scaling, and rotation on a touch-screen display

HTC

United States Patent   7,669,134   February 23, 2010

Method and apparatus for displaying information during an instant messaging session

Abstract

A method and an apparatus are provided for controlling a graphical user interface to display information related to a communication session. Information relating to data produced by a first participant to the communication session is displayed on a first display unit, wherein the information produced by the first participant is displayed at a first position on the first display unit. Data is received from a second participant to the communication session, and information relating to the data received from the second participant is displayed on the first display unit, wherein the information received from the second participant is displayed at a second position on the first display unit. The first and second positions are horizontally spaced apart.
Inventors: Christie; Gregory N. (San Jose, CA), Westen; Peter T. (Menlo Park, CA), Lemay; Stephen O. (San Francisco, CA), Alfke; Jens (San Jose, CA)

Assignee: Apple Inc. (Cupertino, CA)

Filed: May 2, 2003

United States Patent   7,812,828   October 12, 2010

Ellipse fitting for multi-touch surfaces

United States Patent   7,844,915   November 30, 2010

Application programming interfaces for scrolling operations

Abstract

At least certain embodiments of the present disclosure include an environment with user interface software interacting with a software application. A method for operating through an application programming interface (API) in this environment includes transferring a set bounce call. The method further includes setting at least one of maximum and minimum bounce values. The set bounce call causes a bounce of a scrolled region in an opposite direction of a scroll based on a region past an edge of the scrolled region being visible in a display region at the end of the scroll.
Inventors: Platzer; Andrew (Santa Clara, CA), Herz; Scott (Santa Clara, CA)

Assignee: Apple Inc. (Cupertino, CA)

Filed: January 7, 2007

United States Patent   7,853,891   December 14, 2010

Method and apparatus for displaying a window for a user interface

Abstract

Methods and apparatuses to display windows. In more than one embodiments of the invention, a window is closed automatically (e.g., after a timer expires, or when a condition or criterion is met, or a system input is received) without user input. In some examples, the window is translucent so that the portion of another window, when present, is visible under the window. In some examples, the image of the window is faded out before the window is closed and destroyed. In some examples, the window does not close in response to any input from a user input device. In some examples, the window is repositioned (or hidden) automatically when another translucent window is displayed. The degree of translucency, the speed for fading out, the discrete levels of translucency for fading out, the time to expire, and/or other parameters for controlling the display of the window may be set by the user or adjusted by the system (or application software programs) automatically according to system conditions or other criteria.

Inventors: Chaudhri; Imran (San Francisco, CA), Ording; Bas (San Francisco, CA)

Assignee: Apple Inc. (Cupertino, CA)

Filed: February 1, 2008

United States Patent   7,863,533   January 4, 2011

Cantilevered push button having multiple contacts and fulcrums

Abstract

A cantilevered push button adapted for accepting an input on an electrical or electronic device is disclosed. The button can include an elongated button top component disposed about an exterior surface of an electrical or electronic device such that it is accessible to a user, and having two opposing distal ends associated with separate user inputs. A first fulcrum is located between the first distal end and the midpoint of the elongated button top component, while a second fulcrum is located between the second distal end and the midpoint. A first electrical contact is associated with the first distal end, such that when a user presses on the first distal end, the elongated button top component pivots about the second fulcrum and the first electrical contact is actuated. A second electrical contact is similarly associated with the second distal end and first fulcrum.

Inventors: Hamel; Bradley J. (Sunnyvale, CA), Tan; Tang Yew (San Francisco, CA),

Wang; Erik (Redwood City, CA)

Assignee: Apple Inc. (Cupertino, CA)

Filed: September 26, 2008

Galaxy   iPhone

iPhone iPad iPod Touch

ITC U.S. International Trade
Commission

preliminary injunction

ITC

HTC   HTC   Android
MS

HTC

Nexus One

OS   MS

HTC

CNET

Motorola Inc.
U.S. District Court for the Western District of Washington at Seattle
ITC

United States Patent   5,579,517   November 26, 1996

Common name space for long and short filenames

Abstract

An operating system provides a common name space for both long filenames and short filenames. In this common namespace, a long filename and a short filename are provided for each file. Each file has a short filename directory entry and may have at least one long filename directory entry associated with it. The number of long filename directory entries that are associated with a file depends on the number of characters in the long filename of the file. The long filename directory entries are configured to minimize compatibility problems with existing installed program bases.

Inventors: Reynolds; Aaron R. (Redmond, WA), Adler; Dennis R. (Mercer Island, WA), Lipe; Ralph A. (Woodinville, WA), Pedrizetti; Ray D. (Issaquah, WA), Parsons; Jeffrey T. (Redmond, WA), Arun; Rasipuram V. (Redmond, WA)

Assignee: Microsoft Corporation (Redmond, WA)

Filed: April 24, 1995

United States Patent   5,758,352   May 26, 1998

Common name space for long and short filenames

Abstract

An operating system provides a common name space for both long filenames and short filenames. In this common namespace, a long filename and a short filename are provided for each file. Each file has a short filename directory entry and may have at least one long filename directory entry associated with it. The number of long filename directory entries that are associated with a file depends on the number of characters in the long filename of the file. The long filename directory entries are configured to minimize compatibility problems with existing installed program bases.

Inventors: Reynolds; Aaron R. (Redmond, WA), Adler; Dennis R. (Mercer Island, WA), Lipe; Ralph A. (Woodinville, WA), Pedrizetti; Ray D. (Issaquah, WA), Parsons; Jeffrey T. (Redmond, WA), Arun; Rasipuram V. (Redmond, WA)

Assignee: Microsoft Corporation (Redmond, WA)

Filed: September 5, 1996

United States Patent   6,621,746   September 16, 2003

Monitoring entropic conditions of a flash memory device as an indicator for invoking erasure operations

Abstract

Erase operations are performed on a flash memory device by monitoring the entropic nature of the flash memory device. In one implementation, flash abstraction logic, tracks how many physical sectors are free to receive data; track how many physical sectors contain data that is dirty, and compare whether the physical sectors that are free to receive data outnumber the physical sectors that contain data that is dirty. A compactor performs an erase operation of one or more blocks when the physical sectors that contain data that is dirty outnumber the physical sectors that are free to receive data. In another implementation, the flash abstraction logic tracks how many physical sector addresses are free to receive data, and track when the physical sector addresses that are free to receive data are insufficient in quantity to receive write requests from a file system. The compactor executes an erase operation of one or more blocks if the physical sector addresses that are free to receive data are insufficient in quantity.

Inventors: Aasheim; Jered Donald (Bellevue, WA), Yang; Yongqi (Bellevue, WA)
Assignee: Microsoft Corporation (Redmond, WA)
Filed: February 27, 2002

United States Patent   6,826,762   November 30, 2004

Radio interface layer in a cell phone with a set of APIs having a hardware-independent proxy layer and a hardware-specific driver layer

                      API

Abstract

A Radio Interface Layer (RIL) is disclosed. The RIL comprises an API set which provides a level of abstraction between the radio on a cell phone and the software of the cell phone. The API set of RIL is roughly based on the GSM AT interface as defined in GSM specifications 07.05 and 07.07. The API set provides access to functionality contained within a cellular telephone, such as a GSM or CDMA compatible telephone. These APIs allow applications running on an operating system in the cellular telephone to issue commands without knowledge of the underlying radio structure of the cellular telephone and specific knowledge of the GSM-type commands. For example, these APIs allow the applications to access to phonebook entries, restrict access to data

and functionality using passwords, access file and message storage, and perform many other functions. The RIL is divided into a hardware-independent proxy layer, called by various software components, and a driver layer that is hardware-specific.

Inventors: Shell; Scott R. (Redmond, WA), Sherman; Roman (Bellevue, WA), Shen; Alan W. (Seattle, WA)

Assignee: Microsoft Corporation (Redmond, WA)

Filed: February 16, 2001

United States Patent   6,909,910   June 21, 2005

Method and system for managing changes to a contact database

Abstract

Described is a system and method for updating a contact and adding a new contact from a call log in a communications device. The system includes a contact manager that is directed towards creating and updating call contact cards in a contact database with information retrieved from call logs of phone calls made to or from the communications device. In one embodiment, information is pre-populated into a predetermined data field of the contact card, thereby reducing workload to a user. The method includes determining if a request is for updating an existing contact card or for adding a new contact card to the contact database. The update or addition is made with information retrieved from call logs. Call information is pre-populated into a predetermined data field of the contact card, when it is determined that the request is to add a new contact card to the contact database.

Inventors: Pappalardo; Susan Elizabeth (Kirkland, WA), Fuller; Jason William (Bellevue, WA), Chin; Peter G. (Seattle, WA), Tenenbaum; Jessica Dale (Seattle, WA)

Assignee: Microsoft Corporation (Redmond, WA)

Filed: February 1, 2002

United States Patent   7,644,376   January 5, 2010

Flexible architecture for notifying applications of state changes

Abstract

Described is a method and system a unified mechanism for storing device, application, and service state, as well as a rich notification brokerage architecture. Clients register with a notification broker to receive notifications for changes to state properties. When a registered state property changes, a notification broker determines which clients to

notify of the state change and provides the client with a notification regarding the change. Clients may be notified whenever a state changes, when a state change meets a predetermined condition, or based on a schedule. An application may also be launched in response to a state change. An application programming interface (API) is provided that provides a unified way of accessing state change information across different components within the device.

Inventors: Karachale; Jan (Sammamish, WA), Fuller; Jason William (Bellevue, WA), Levy; Robert (Virginia Beach, VA), Koch; Zeke (Seattle, WA), Arac; Ardan (Seattle, WA), Cross; Brian (Redmond, WA), Amiga; Ori M. (Seattle, WA)
Assignee: Microsoft Corporation (Redmond, WA)
Filed: June 22, 2004

United States Patent   5,664,133   September 2, 1997
Context sensitive menu system/menu behavior

Abstract
A method and system are described for a computer system for retrieving and presenting a set of commands in the form of a pop up context menu for a selected object. The context menu is displayed in the proximity of the selected object and is determined primarily by the class of the selected object and secondarily by the particular container in which the selected object resides at the time of selection. The context menu displays a number of useful features which enable the user to quickly and easily invoke commands upon the selected object.

Inventors: Malamud; Mark A. (Seattle, WA), Elsbree; John E. (Everett, WA), Butler; Laura J. (Bellevue, WA), Barnes, Jr.; David A. (Seattle, WA)
Assignee: Microsoft Corporation (Redmond, WA)
Filed: April 30, 1996

United States Patent   6,578,054   June 10, 2003
Method and system for supporting off-line mode of operation and synchronization using resource state information

Abstract
Systems and methods for synchronizing multiple copies of data in a network

environment that includes servers and clients so that incremental changes made to one copy of the data can be identified, transferred, and incorporated into all other copies of the data. The synchronization can be accomplished regardless of whether modifications to the data have been made by a client while the client is in an on-line or off-line mode of operation. The clients cache data locally as data are modified and downloaded. The caching enables the clients to access the data and allows the synchronization so be performed without transmitting a particular version more than once between a client and a server. Such elimination of redundant data transmission results in an efficient use of time and network bandwidth.

Inventors: Hopmann; Alexander I. (Seattle, WA), Anderson; Rebecca L. (Redmond, WA), Deen; Brian J. (North Bend, WA)

Assignee: Microsoft Corporation (Redmond, WA)

Filed: October 4, 1999

United States Patent   6,370,566   April 9, 2002

Generating meeting requests and group scheduling from a mobile device

Abstract

The present invention includes a mobile device which provides the user with the ability to schedule a meeting request from the mobile device itself. The mobile device creates an object representative of the meeting request and assigns the object a global identification number which uniquely identifies the object to other devices which encounter the object. In addition, the mobile device in accordance with one aspect of the present invention provides a property in the object which is indicative of whether the meeting request has already been transmitted. In this way, other devices which encounter the meeting request are capable of identifying it as a unique meeting request, and of determining whether the meeting request has already been transmitted, in order to alleviate the problem of duplicate meeting request transmissions.

Inventors: Discolo; Anthony (Redmond, WA), Skorupa; Scott (Newcastle, WA), Alam; Salim (Redmond, WA), Vargas; Garrett R. (Kirkland, WA), Whitney; Dave (Bellevue, WA), Ulrich; Bryce (Kirkland, WA), Ferrell; John I. (Bellevue, WA)

Assignee: Microsoft Corporation (Redmond, WA)

Filed: April 10, 1998

Xbox

ITU International Telecommunications Union

Windows OS Exchange, Outlook, Messenger, Windows Live
Windows mobile (phone) software　　　　Xbox
Motorola Mobility

United States Patent   5,502,839　　　　March 26, 1996

Object-oriented software architecture supporting input/output device independence

Abstract

An object-oriented software architecture interacts with "real" input/output devices exclusively through "virtual" input/output devices. Since all human interface with the operating system is performed through such virtual devices, the system can accept any form of real input or output devices. The lowest level of the operating system converts input from any physical device to virtual form and converts virtual output into suitable physical output. Any number of physical devices can be connected to, removed from, or replaced in the system without disrupting the system.

Inventors: Kolnick; Frank C. (Willowdale, CA)

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: June 2, 1989

United States Patent   6,272,333　　　　　　August 7, 2001

Method and apparatus in a wireless communication system for controlling a delivery of data

United States Patent   5,784,001   July 21, 1998

Method and apparatus for presenting graphic messages in a data communication receiver

Abstract

A data communication receiver (100) includes a receiver (110) for receiving a message including at least one code, a database (155) for storing codes and image data associated with the codes, and a presentation element (150) for locating the at least one code in the database (155). The presentation element (150) then retrieves the image data associated with the at least one code. The image data associated with the at least one code is representative of at least one image. The data communication receiver (100) also includes a display (130) coupled to the presentation element (150) for presenting the at least one image as a graphic message.

Inventors: Deluca; Joan (Boca Raton, FL), Kraul; Douglas (Parkland, FL), Batey, Jr.; Charles Edward (Lake Worth, FL)

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: July 21, 1997

United States Patent   5,764,899   June 9, 1998

Method and apparatus for communicating an optimized reply

Abstract

For optimized reply, when sending a reply (902) in a first embodiment a remote communication unit's controller (206) generates a delta between a preceding message and the reply message, and forms an optimized reply (904) using the delta and an identifier of the preceding message. On receiving the optimized reply, the communication server uses the data unit identifier to retrieve (910) the preceding message from a further server (e.g., the post office mailbox of the user associated with the remote unit), reconstructs (914) the full reply from the retrieved message and the delta, and forwards (916) the full reply to the addressee. When receiving a reply for the remote unit (918), an index is preferably maintained by both units of mail stored at the remote unit. From this index a preceding message forming part of the reply is identified (920). An optimized reply is then similarly formed (922) and sent to the remote unit.

Inventors: Eggleston; Gene (Cary, IL), Hansen; Mitch (Fox River Grove, IL), Rzany; Anthony (Crystal Lake, IL)

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: December 19, 1995

United States Patent   6,757,544   June 29, 2004

System and method for determining a location relevant to a communication device and/or its associated user

Abstract

A method of determining a location relevant to a user of a communication device is provided. The method involves determining general location information of the location relevant to the user and determining a list of location parameters from the general location information. Specific location of the communication device is also determined. The location relevant to the user is then determined by comparing the list of location parameters with the specific location information. Systems and programs for using the method are also provided.

Inventors: Rangarajan; Jayanthi (Naperville, IL), Ladd; David (Downers Grove, IL), Balasuriya; Senaka (Westmont, IL), Tuckey; Curtis (Chicago, IL)

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: August 15, 2001

United States Patent   6,408,176   June 18, 2002

Method and apparatus for initiating a communication in a communication system

Abstract

Caller-related information, such as a telephone number, in a voice mail message intended for a communication unit (102) is extracted from the voice mail message and converted into an alpha-numeric string by a converter device (112). The alpha-numeric string is conveyed by a messaging device (110) to the communication unit and stored in the communication unit. Using the stored caller-related information, a user of the communication unit is able to repeatedly initiate a call to the caller identified by the caller-related information without having to access a voice mail device or enter the caller-related information manually.

Inventors: Urs; Kamala D. (Bartlett, IL)

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: July 13, 1998

United States Patent   6,983,370   January 3, 2006

System for providing continuity between messaging clients and method therefor

Abstract

A messaging communication system (10) includes a plurality of messaging clients (12). A first messaging client (14) establishes a first communication connection (16) operating using a plurality of client data (25). The first messaging client (14) transfers the plurality of client data (25) to a second messaging client (20). The second messaging client (20) establishes a second communication connection (22) operating using the plurality of client data (25).

Inventors: Eaton; Eric Thomas (Lake Worth, FL), Hayes; David Jeffery (Lake Worth, FL), Mock; Von Alan (Boynton Beach, FL)

Assignee: Motorola, Inc. (Schaumberg, IL)

Filed: November 27, 2001

Windows OS Exchange, Outlook, Messenger, Windows Live
Windows mobile (phone) software   Xbox
Motorola Mobility

United States Patent   6,686,931   February 3, 2004

Graphical   password   methodology   for   a   microprocessor   device   accepting non-alphanumeric user input

Abstract

A portable computing device or "information appliance" having terse user input (e.g., limit set of keys) is provided with a user interface for navigating user data. Application programs, which are provided for user operation of the device, are implemented as separate modules controlled by a module selector. The module selector serves as a user interface or shell representing the top-level or "home" display presented to a user. The module selector presents the user with selection icons for navigating to different applications or modules of functionality. The user interface implements a "single-click" style of button operation, so that users can associate each button with a particular task for a given program context. In addition to the single-click style, "click consistency" is imposed for each button. Generally, the same buttons are used over and over again to perform their respective tasks, even though the user has navigated to different modules of an application, so that the user is presented with a consistent interface or

metaphor which can be easily mastered. The user interface supports in a small form factor device the browser-style navigation that users have become accustomed to on desktop computers (e.g., using Web browsers). More particularly, the interface supports up, down, forward, and backward navigation for allowing a user to "drill down" to "drill across" his or her data. This allows the user to find a data item (link) of interest and then drill down into it. Once at the appropriate level, the user can then easily select the particular item of interest. Further, once the user has selected or entered an item, the system provides the ability for the user to return to "home" with a single button click. In this manner, the present invention provides an interface allowing browser-style navigation in a device having a terse set of input keys.

Inventors: Bodnar; Eric O. (Capitola, CA)

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: August 20, 2001

United States Patent   6,992,580   January 31, 2006

Portable communication device and corresponding method of operation

Abstract

A portable communication device (100) includes at least one sensing circuit (101) and a processor (104), and operates in accordance with a corresponding method of operation. The sensing circuit detects (205) either a characteristic of an external environment containing the portable communication device (e.g., a chemical in the air or acceleration of the device) or a characteristic of the portable communication device user (e.g., heart rate or blood sugar content), and generates a signal (207) representative of a feature of the sensed characteristic. The processor receives the signal and initiates an event based at least on the feature of the sensed characteristic as represented by the signal. Events include, but are not limited to, one or more of the following: alerting the device user, transmitting a signal (e.g., an emergency call) to a remote communication device, re-sensing the characteristic or sensing another characteristic, and modifying a setting or profile of the device.

Inventors: Kotzin; Michael D. (Buffalo Grove, IL), Klapman; Matthew H. (Northbrook, IL), Alberth, Jr.; William P. (Crystal Lake, IL)

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: July 25, 2002

United States Patent   7,106,358   September 12, 2006

Method, system and apparatus for telepresence communications

Abstract

An apparatus, system and method for telepresence communications at a virtual location between two or more participants at multiple locations (100, 200). First perspective data descriptive of the perspective of the virtual location environment experienced by a first participant at a first location and feature data extracted from features of a second participant at a second location (210, 220) are processed to generate a first virtual representation of the second participant in the virtual environment from the perspective of the first participant (250). Likewise, second perspective data descriptive of the perspective of the virtual location environment experienced by the second participant and feature data extracted from features of the first participant (230, 240) are processed to generate a second virtual representation of the first participant in the virtual environment from the perspective of the second participant (260). The first and second virtual representations are rendered and then displayed to the first and second participants, respectively (260, 270). The first and second virtual representations are updated and redisplayed to the participants upon a change in one or more of the perspective data and extracted feature data from which they are generated (290, 295). The apparatus, system and method are scalable to two or more participants.

Inventors: Valliath; George T. (Buffalo Grove, IL), Jelley; Kevin W. (LaGrange, IL)

Assignee: Motorola, Inc. (Schaumburg, IL)

Filed: December 30, 2002

Microsoft Corporation   Android

Nook e-reader

ITC

Defendants:

Barnes & Noble, Inc. , Barnesandnoble.Com LLC ,

Hon Hai Precision Industry Co., Ltd.,

Foxconn International Holdings Ltd., Foxconn Electronics, Inc.,

Foxconn Precision Component Co., Ltd. and

Inventec Corporation   OEM

HTC   Android

Foxconn   iPad   Linux

Kindle   Nook

United States Patent   5,778,372   July 7, 1998

Remote retrieval and display management of electronic document with incorporated images

Abstract

A browser remotely retrieves electronic documents from a remote computer network for viewing by a user. For enhancing responsiveness, the browser initially displays an electronic document without a background image so that the electronic document is initially displayed more quickly. The browser also prioritizes downloading of embedded images of the document by their incorporation in the currently visible portion of the electronic document. Further, the browser dynamically creates additional connections for retrieving resources incorporated into the electronic document from the remote computer network.

Inventors: Cordell; John Palmer (Bellevue, WA),

Franklin; Christopher Matthew (Bellevue, WA)

Assignee: Microsoft Corporation (Redmond, WA)

Filed: April 18, 1996

United States Patent   6,339,780   January 15, 2002

Loading status in a hypermedia browser having a limited available display area

Abstract

Described herein is a portable computer having a limited display area. An Internet or other hypermedia browser executes on the portable computer to load and display content in a content viewing area. During times when the browser is loading content, the browser displays a temporary, animated graphic element over the content viewing area. The graphic element is removed after the content is loaded, allowing unobstructed viewing of the loaded content.

Inventors: Shell; Scott R. (Redmond, WA),

Shields; Kevin Timothy (Redmond, WA), Kitowitz; Anthony (Kirkland, WA)

Assignee: Microsoft Corporation (Redmond, WA)

Filed: May 6, 1997

United States Patent   5,889,522   March 30, 1999

System provided child window controls

Abstract

New varieties of child window controls are provided as system resources that application programs may exploit. The preferred embodiment of the present invention provides a dynamic link library (DLL) for implementing the new child window controls as part of an operating system. The new child window controls include a header bar control for providing header bars in application programs. The new controls also include a hot key control that allows a user to view and edit hot key combinations. The new controls further include a tab control for establishing tabs that differentiate amongst pages in user interfaces provided by application programs. An image list data type is defined and functions are provided for manipulating the image list data type. Image lists include multiple like-sized images that are stored efficiently in a single bitmap.

Inventors: Chew; Chee Heng (Redmond, WA),

Konzen; Neil (Bellevue, WA), Guzak; Christopher J. (Kirkland, WA), Laney; Stuart T. (Seattle, WA), Pitt, III; George H. (Redmond, WA), Ellison-Taylor; Ian M. (Seattle, WA), Gery; Ron O. (Kirkland, WA)

Assignee: Microsoft Corporation (Redmond, WA)

Filed: December 13, 1994

United States Patent   6,891,551   May 10, 2005

Selection handles in editing electronic documents

Abstract

A computer system and method for highlighting and selecting elements of electronic documents is disclosed. In one embodiment, a selection area identifies an initial selection of data, and one or more selection handles appear on the selection area to allow dynamic resizing of the selection area to select a larger or smaller portion of data or number of items.

Inventors: Keely; Leroy B. (Portola Valley, CA),

Iwema; Marieke (Renton, WA), Cazzanti; Susanne Alysia Clark (Bellevue, WA)

Assignee: Microsoft Corporation (Redmond, WA)

Filed: January 24, 2001

United States Patent   6,957,233   October 18, 2005

Method and apparatus for capturing and rendering annotations for non-modifiable electronic content

Abstract

A system and method for capturing annotations for a non-modifiable document is disclosed. Once it is determined that an annotation is to be created, the system determines the file position of the selected object. The file position of the selected object is stored along with the created annotation in another file or a non-read only portion of a file storing the document. Using the file position, the annotation may be properly identified with the selected object without modifying the non-modifiable document.

Inventors: Beezer; John L. (Redmond, WA),

DeMello; Marco A. (Redmond, WA), Dunietz; Jerry J. (Seattle, WA), Keely; Leroy B. (Portola Valley, CA), Madan; Vikram (Bellevue, WA), Silver; David M. (Redmond, WA), Thacker; Charles P. (Palo Alto, CA)

Assignee: Microsoft Corporation (Redmond, WA)

Filed: December 7, 1999

<u>What is claimed is:</u>

1. A computer-implemented method for annotating a system having a display for displaying a page having user selectable objects being intermixed with markup tags, said user selectable objects and said markup tags being stored in a non-modifiable portion of a file, said mark-up tags bounding said user selectable objects in said file, comprising the steps of: receiving user input for a selection of an object of said user selectable objects on the displayed page; receiving user input for providing an annotation associated with said selected object; said annotation being modifiable; determining a position of the selected object in the non-modifiable portion of the file regardless of said markup tags bounding said selected object; storing the position and the annotation separately from the non-modifiable portion of the file; and providing a portion of said display configured for navigating to the previously selected object based on said position, when said annotation is subsequently selected.

(A)

(   )   (   ).

Android

Android

MS

Android

HTC   Android   MS
General Dynamics Itronix

Onkyo Corp.　Android
Velocity Micro　　Android
Amazon

Android　　　　Kindle　　　　　　Linux

CNET

OEM　　　　　Wistron

Oracle　　　　　　　Android

U.S. District Court for Northern
District of California at San Francisco

1. United States Patent　6,125,447　　　　　　September 26, 2000
Protection domains to provide security in a computer system

Abstract
A method and apparatus are provided for maintaining and enforcing security rules using protection domains. As new code arrives at a computer, a determination is assigned to a protection domain based on the source from which the code is received.
Inventors:　Gong; Li (Menlo Park, CA)
Assignee: Sun Microsystems, Inc. (Mountain View, CA)
Filed:　December 11, 1997

2. United States Patent　6,192,476　　　　　　February 20, 2001
Controlling access to a resource

Abstract
A method and system are provided for determining whether a principal (e.g. a thread)

may access a particular resource.

Inventors: Gong; Li (Menlo Park, CA)

Assignee: Sun Microsystems, Inc. (Mountain View, CA)

Filed: December 11, 1997

3. United States Patent   5,966,702   October 12, 1999

Method and apparatus for pre-processing and packaging class files

Abstract

A method and apparatus for pre-processing and packaging class files. Embodiments remove duplicate information elements from a set of class files to reduce the size of individual class files and to prevent redundant resolution of the information elements.

Inventors: Fresko; Nedim (San Francisco, CA),

Assignee: Sun Microsystems, Inc. (Palo Alto, CA)

Filed: October 31, 1997

<u>We claim:</u>

1. A method of pre-processing class files comprising:

determining plurality of duplicated elements in a plurality of class files;

forming a shared table comprising said plurality of duplicated elements;

removing said duplicated elements from said plurality of class files to obtain a plurality of reduced class files; and

forming a multi-class file comprising said plurality of reduced class files and said shared table.

(   )   (   ).

4. United States Patent   7,426,720   September 16, 2008

System and method for dynamic preloading of classes through memory space cloning of a

Abstract

A system and method for dynamic preloading of classes through memory space cloning of a master runtime system process is presented. A master runtime system process is executed. A representation of at least one class is obtained from a source definition provided as object-oriented program code.

Inventors: Fresko; Nedim (San Francisco, CA)

Assignee: Sun Microsystems, Inc. (Santa Clara, CA)

Filed: December 22, 2003

5. United States Patent   RE38,104   April 29, 2003

Method and apparatus for resolving data references in generated code

Abstract

A hybrid compiler-interpreter comprising a compiler for "compiling" source program code, and an interpreter for interpreting the "compiled" code, is provided to a computer system. The compiler comprises a code generator that generates code in intermediate form with data references made on a symbolic basis.

Inventors: Gosling; James (Redwood City, CA)

Assignee: Sun Microsystems, Inc. (Palo Alto, CA)

Filed: March 3, 1999

What is claimed is: .[.

1. In a computer system comprising a program in source code form, a method for generating executable code for said program and resolving data references in said generated code, said method comprising the steps of: a) generating executable code in intermediate form for said program in source code form with data references being made in said generated code on a symbolic basis, said generated code comprising a plurality of instructions of said computer system; b) interpreting said instructions, one at a time, in accordance to a program execution control; c) resolving said symbolic references to corresponding numeric references, replacing said symbolic references with their corresponding numeric references, and continuing interpretation without advancing program execution, as said symbolic references are encountered while said instructions are being interpreted; and d) obtaining data in accordance to said numeric references, and continuing interpretation after advancing program execution, as said numeric references are encountered while said instruction are being interpreted; said

steps b) through d) being performed iteratively and interleaving..]. .[.

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6. United States Patent   6,910,205   June 21, 2005
Interpreting functions utilizing a hybrid of virtual and native machine instructions

Abstract
Systems and methods for increasing the execution speed of virtual machine instructions for a function are provided. A portion of the virtual machine instructions of the function are compiled into native machine instructions so that the function includes both virtual and native machine instructions.
Inventors: Bak; Lars (Palo Alto, CA), Griesemer; Robert (Menlo Park, CA)
Assignee: Sun Microsystems, Inc. (Santa Clara, CA)
Filed: July 12, 2002

7. United States Patent   6,061,520   y 9, 2000
Method and system for performing static initialization

Abstract
The disclosed system represents an improvement over conventional systems for initializing static arrays by reducing the amount of code executed by the virtual

machine to statically initialize an array. To realize this reduction, when consolidating class files, the preloader identifies all <clinit> methods and play executes these methods to determine the static initialization performed by them.

Inventors: Yellin; Frank (Redwood City, CA), Tuck;

Assignee: Sun Microsystems, Inc. (Palo Alto, CA)

Filed: April 7, 1998

What is claimed is:

1. A method in a data processing system for statically initializing an array, comprising the steps of:

compiling source code containing the array with static values to generate a class file with a clinit method containing byte codes to statically initialize the array to the static values;

receiving the class file into a preloader;

simulating execution of the byte codes of the clinit method against a memory without executing the byte codes to identify the static initialization of the array by the preloader;

storing into an output file an instruction requesting the static initialization of the array; and

interpreting the instruction by a virtual machine to perform the static initialization of the array.

(B2)

(   )

(   ).

Andtroid　API

Java API　　　　copyrighted Java API　　　derivative

Java　　　　　　　　　　　　　　　　　　　Java
TCK　Technology　Compatibility　Kits

counter claim　　　　　　　counter sue

Java　　　　　　　　copyright
infringement

5966702, 6061520, 6125447, RE38104

Java

Android

claim

construction

CNET

CEO   Larry Page

USPTO

StreetSpace vs. Google, Admob
Skyhook Wireless vs. Google
Tierravision vs. Google, Microsoft, RIM
Microunity Systems Engineering vs. Motorola, Samsung, HTC, Google,
eBay vs. Google
NTP vs. Google, LG, Motorola, HTC
Interval Licensing vs. Google and others
Wireless Recognition Technologies vs. A9.com, Amazon
Gemalto vs. Google, Samsung, Motorola, HTC
Vertical Computer Systems vs. Samsung, LG
St.Clair IP Consultants vs. Apple, HTC

Helferich Patent Licensing vs. Huawei

Multimedia Patent Trust(Alcatel-Lucent) vs. Apple, LG, Canon, TiVo

Hybrid Audio vs. HTC, Dell and others

Hopewell Culture & Design vs. Motorola, Samsung, HTC, LG, Nokia

Summit 6 vs. RIM, Samsung, Facebook

Illinois Computer vs. Google

H-W Technologies vs.

2010

Embedded Wireless Labs

StreetSpace

Defendants:

Google, Inc.,

Admob, Inc,

Apple, Inc.,

Quattro Wireless, Inc,

Nokia Corporation, Nokia Inc,

Navteq Corporation,

Millennial Media, Inc,

Jumptap, Inc and DOES

United States Patent   6,847,969   January 25, 2005

Method and system for providing personalized online services and advertisements in public spaces

Abstract

A method and system for providing, personalized and integrated online services for communications and commercial transactions both in private and public venues. The invention provides personalized information that is conveniently accessible through a network of public access stations (or terminals) which are enabled by a personal system access card (e.g., smart card).

Inventors: Mathai; Tom J. (San Francisco, CA),

Assignee: StreetSpace, Inc. (Torrance, CA)

Filed: March 6, 2002

Wi-Fi

Skyhook

United States Patent   7,471,954   December 30, 2008

Methods and systems for estimating a user position in a WLAN positioning system based on user assigned access point locations

Abstract

A method of estimating a location of a WLAN-enabled user-device in a WLAN-based positioning system is provided. The WLAN-enabled device receives signals transmitted by WLAN-enabled access points in range of the WLAN-enabled user-device so that observed WLAN-enabled access points identify themselves.

Inventors: Brachet; Nicolas (Chestnut Hill, MA),

Assignee: Skyhook Wireless, Inc. (Boston, MA)

Filed: February 23, 2007

United States Patent   7,305,245   December 4, 2007

Location-based services that choose location algorithms based on number of detected access points within range of user device

Abstract

A location beacon database and server, method of building location beacon database, and location based service using same. Wi-Fi access points are located in a target geographical area to build a reference database of locations of Wi-Fi access points. At least one vehicle is deployed including at least one scanning device having a GPS device and a Wi-Fi radio device and including a Wi-Fi antenna system. The target area is traversed in a programmatic route to avoid arterial bias. The programmatic route includes substantially all drivable streets in the target geographical area and solves an

Eulerian cycle problem of a graph represented by said drivable streets. While traversing the target area, periodically receive the GPS coordinates of the GPS device. While traversing the target area, detecting Wi-Fi signals from Wi-Fi access points in range of the Wi-Fi device and recording identity information of the detected Wi-Fi access point in conjunction with GPS location information of the vehicle when the detection of the Wi-Fi access point was made. The location information is used to reverse triangulate the position of the detected Wi-Fi access point; and the position of the detected access point is recorded in a reference database.

Inventors: Alizadeh-Shabdiz; Farshid (Wayland, MA), Jones; Russel Kipp (Roswell, GA), Morgan; Edward James (Needham, MA), Shean; Michael George (Boston, MA)

Assignee: Skyhook Wireless, Inc. (Boston, MA)

Filed: October 28, 2005

United States Patent   7,433,694   October 7, 2008

Location beacon database

Abstract

A location beacon database and server, method of building location beacon database, and location based service using same. Wi-Fi access points are located in a target geographical area to build a reference database of locations of Wi-Fi access points. At least one vehicle is deployed including at least one scanning device having a GPS device and a Wi-Fi radio device and including a Wi-Fi antenna system. The target area is traversed in a programmatic route to avoid arterial bias. The programmatic route includes substantially all drivable streets in the target geographical area and solves an Eulerian cycle problem of a graph represented by said drivable streets. While traversing the target area, periodically receive the GPS coordinates of the GPS device. While traversing the target area, detecting Wi-Fi signals from Wi-Fi access points in range of the Wi-Fi device and recording identity information of the detected Wi-Fi access point in conjunction with GPS location information of the vehicle when the detection of the Wi-Fi access point was made. The location information is used to reverse triangulate the position of the detected Wi-Fi access point; and the position of the detected access point is recorded in a reference database. A user-device having a Wi-Fi radio may be located. A reference database of calculated locations of Wi-Fi access points in a target area is provided.

Inventors: Morgan; Edward James (Needham, MA), Alizadeh-Shabdiz; Farshid (Wayland, MA), Jones; Russel Kipp (Roswell, GA), Shean; Michael George (Boston, MA)

Assignee: Skyhook Wireless, Inc. (Boston, MA)

Filed: October 28, 2005

United States Patent   7,474,897   January 6, 2009

Continuous data optimization by filtering and positioning systems

Abstract

Methods and systems of continuously optimizing data in WiFi positioning systems. A location-based services system for WiFi-enabled devices calculates the position of WiFi-enabled devices. A WiFi-enabled device communicates with WiFi access points within range of the WiFi-enabled device so that observed WiFi access points identify themselves. A reference database is accessed to obtain information specifying a recorded location for each observed WiFi access point. The recorded location information for each of the observed WiFi access points is used in conjunction with predefined rules to determine whether an observed WiFi access point should be included or excluded from a set of WiFi access points. The recorded location information of only the WiFi access points included in the set are used and the recorded location information of the excluded WiFi access points are excluded when calculating the geographical position of the WiFi-enabled device.

Inventors: Morgan; Edward J. (Needham, MA), Shean; Michael G. (Boston, MA), Alizadeh-Shabdiz; Farshid (Wayland, MA), Jones; Russel K. (Roswell, GA)

Assignee: Skyhook Wireless, Inc. (Boston, MA)

Filed: February 22, 2006

Tierravision Inc.

Defendants:

Research in Motion Ltd. , Research in Motion Corporation ,

Google Inc.   and

Microsoft Corporation

United States Patent   RE41,983   December 7, 2010

Method of organizing and compressing spatial data

Abstract

A method for organizing and compressing spatial data to enable fast, incremental downloads of spatial data over a network. The method comprises multiple steps for segmenting and reducing spatial data, and introduces a location-relevant naming system for storing and accessing the data. Applications installed on remote devices are able to efficiently compute data file names based solely on location information, download the data over a network and cache the data on the device.

Inventors: Wallner; Alfred M. (San Diego, CA)

Assignee: Tierravision, Inc. (La Jolla, CA)

Filed: August 25, 2008

MicroUnity Systems Engineering Inc.

Defendants:

Texas Instruments Inc.,

Qualcomm, Inc.,

Samsung Electronics Co LTD, Samsung TeleCommunications America, LLC,

Motorola, Inc.,

Nokia Corporation,

Palm, Inc.,

Acer, Inc.,

HTC Corporation,

Google Inc.,

LG Electronics Inc,

Apple, Inc.,

Cellco Partnership d/b/a Verizon Wireless,

Sprint Nextel Corporation and

AT&T

1. United States Patent   5,737,547   April 7, 1998

System for placing entries of an outstanding processor request into a free pool after the request is accepted by a corresponding peripheral device

74

Abstract

A non-blocking load buffer is provided for use in a high-speed microprocessor and memory system. The non-blocking load buffer interfaces a high-speed processor/cache bus, which connects a processor and a cache to the non-blocking load buffer, with a lower speed peripheral bus, which connects to peripheral devices.
Inventors: Zuravleff; William K. (Mountainview, CA),

Assignee: MicroUnity Systems Engineering, Inc. (Sunnyvale, CA)

Filed: June 7, 1995

2. United States Patent   5,794,061   August 11, 1998

General purpose, multiple precision parallel operation, programmable media processor

Abstract

A general purpose, programmable media processor for processing and transmitting a media data stream of audio, video, radio, graphics, encryption, authentication, and networking information in real-time. The media processor incorporates an execution unit that maintains substantially peak data throughout of media data streams. The execution unit includes a dynamically partionable multi-precision arithmetic unit, programmable switch and programmable extended mathematical element.
Inventors: Hansen; Craig (Los Altos, CA),

Assignee: Microunity Systems Engineering, Inc. (Sunnyvale, CA)

Filed: November 22, 1996

3. United States Patent   6,006,318   December 21, 1999

General purpose, dynamic partitioning, programmable media processor

Abstract

A general purpose, programmable media processor for processing and transmitting a media data stream of audio, video, radio, graphics, encryption, authentication, and networking information in real-time.
Inventors: Hansen; Craig (Los Altos, CA),

Assignee: MicroUnity Systems Engineering, Inc. (Sunnyvale, CA)

Filed: October 13, 1998

4. United States Patent   6,725,356   April 20, 2004

System with wide operand architecture, and method

Abstract

The present invention provides a system and method for improving the performance of general purpose processors by expanding at least one source operand to a width greater than the width of either the general purpose register or the data path width. In addition, the present invention provides several classes of instructions which cannot be performed efficiently if the operands are limited to the width and accessible number of general purpose registers.

Inventors: Hansen; Craig (Los Altos, CA),

Assignee: MicroUnity Systems Engineering, Inc. (Sunnyvale, CA)

Filed: August 2, 2001

5. United States Patent   7,216,217   May 8, 2007
Programmable processor with group floating-point operations

Abstract

A programmable processor that comprises a general purpose processor architecture, capable of operation independent of another host processor, having a virtual memory addressing unit, an instruction path and a data path; an external interface; a cache operable to retain data communicated between the external interface and the data path; at least one register file configurable to receive and store data from the data path and to communicate the stored data to the data path; and a multi-precision execution unit coupled to the data path.

Inventors: Hansen; Craig (Los Altos, CA),

Assignee: Microunity Systems Engineering, Inc. (Santa Clara, CA)

Filed: August 25, 2003

6. United States Patent   7,260,708   August 21, 2007
Programmable processor and method for partitioned group shift

Abstract

A programmable processor and method for improving the performance of processors by incorporating an execution unit operable to decode and execute single instructions specifying both a shift amount and a register containing a plurality of data elements, wherein the execution unit is operable to shift a subfield of each of the plurality of data elements by the shift amount to produce a second plurality of data elements; and

provide the second plurality of data elements as a catenated result.

Inventors: Hansen; Craig (Los Altos, CA),

Assignee: Microunity Systems Engineering, Inc. (Sunnyvale, CA)

Filed: November 13, 2003

7. United States Patent   7,353,367   April 1, 2008

System and software for catenated group shift instruction

Abstract

A programmable processor and method for improving the performance of processors by incorporating an execution unit operable to decode and execute single instructions specifying both a shift amount

Inventors: Hansen; Craig (Los Altos, CA),

Assignee: Microunity Systems Engineering, Inc. (Sunnyvale, CA)

Filed: November 14, 2003

8. United States Patent   7,509,366   March 24, 2009

Multiplier array processing system with enhanced utilization at lower precision

Abstract

A multiplier array processing system which improves the utilization of the multiplier and adder array for lower-precision arithmetic is described. New instructions are defined which provide for the deployment of additional multiply and add operations as a result of a single instruction, and for the deployment of greater multiply and add operands as the symbol size is decreased.

Inventors: Hansen; Craig C. (Los Altos, CA)

Assignee: Microunity Systems Engineering, Inc. (Sunnyvale, CA)

Filed: April 18, 2003

9. United States Patent   7,653,806   January 26, 2010

Method and apparatus for performing improved group floating-point operations

Abstract

Systems and apparatuses are presented relating a programmable processor comprising an execution unit that is operable to decode and execute instructions received from an instruction path and partition data stored in registers in the register file into multiple data elements, the execution unit capable of executing a plurality of

different group floating-point and group integer arithmetic operations

Inventors: Hansen; Craig (Los Altos, CA),

Assignee: Microunity Systems Engineering, Inc. (Sunnyvale, CA)

Filed: October 29, 2007

10. United States Patent   7,660,972   February 9, 2010
Method and software for partitioned floating-point multiply-add operation

Abstract

A method and software for improving the performance of processors by incorporating an execution unit operable to decode and execute single instructions specifying three registers each containing a plurality of data elements, the execution unit operable to multiply the first and second registers and add the third register to produce a catenated result containing a plurality of data elements.

Inventors: Hansen; Craig (Los Altos, CA),

Assignee: Microunity Systems Engineering, Inc (Sunnyvale, CA)

Filed: January 16, 2004

11. United States Patent   7,660,973   February 9, 2010
System and apparatus for group data operations

Abstract

Systems and apparatuses are presented relating a programmable processor comprising an execution unit that is operable to decode and execute instructions received from an instruction path and partition data stored in registers in the register file into multiple data elements,

Inventors: Hansen; Craig (Los Altos, CA), Moussouris; John (Palo Alto, CA), Massalin; Alexia (San Jose, CA)

Assignee: Microunity Systems Engineering, Inc. (Santa Clara, CA)

Filed: July 27, 2007

MicroUnity Systems Engineering Inc.

Defendant:

Acer Inc. Acer America Corporation

Apple Inc

AT&T Inc   AT&T Mobility LLC

Cellco Partnership

Exedea Inc

Google Inc.

HTC Corporation   HTC America Inc.

LG Electronics Inc. LG Electronics Inc. LG Electronics MobileComm USA, Inc.

Motorola Inc.,

Nokia Corporation   Nokia Inc. Palm Inc.

Qualcomm Inc.

Samsung Semiconductor Inc.   Samsung Telecommunications America LLC Samsung Electronics Co., Ltd.

Sprint Nextel Corporation

Texas Instruments Inc.

Defendant:

Apple Inc.

AT&T Inc.   AT&T Mobility LLC

Cellco Partnership

Exedea Inc

Google Inc.

HTC Corporation   HTC America, Inc.

LG Electronics Inc.   LG Electronics MobileComm USA, Inc.

Motorola Inc.,

Nokia Corporation   Nokia Inc.

Palm Inc.

Qualcomm Inc.

Samsung Electronics Co. LTD.,   Samsung Semiconductor Inc.

Samsung Telecommunications America LLC

Sprint Spectrum LP

Texas Instruments Inc.

1. United States Patent   6,643,765   November 4, 2003

Programmable processor with group floating point operations

Abstract

A programmable processor that comprises a general purpose processor architecture, capable of operation independent of another host processor, having a virtual memory addressing unit, an instruction path and a data path; an external interface; a cache operable to retain data communicated between the external interface and the data path; at least one register file configurable to receive and store data from the data path and to communicate the stored data to the data path; and a multi-precision execution unit coupled to the data path. The multi-precision execution unit is configurable to dynamically partition data received from the data path to account for an elemental width of the data and is capable of performing group floating-point operations on multiple operands in partitioned fields of operand registers and returning catenated results. In other embodiments the multi-precision execution unit is additionally configurable to execute group integer and/or group data handling operations.
Inventors: Hansen; Craig (Los Altos, CA), Moussouris; John (Palo Alto, CA)
Assignee: Microunity Systems Engineering, Inc. (Sunnyvale, CA)
Filed: March 24, 2000

eBay   PayPal

Google

Wallet   trade secrets

NTP

NTP vs. Google, LG, Motorola, HTC

NTP Inc.

BlackBerrt   Research In Motion

1. United States Patent   6,317,592   November 13, 2001

Electronic mail system with RF communications to mobile processors

Abstract

A system (100) for transmitting information from one of a plurality of originating processors A-N to at least a plurality of destination processors (A-N) which may be transported during operation in accordance with the invention includes at least one gateway switch (14),; a RF information transmission network (302); at least one interface switch (304),

Inventors: Campana, Jr.; Thomas J. (Chicago, IL),

Ponschke; Michael P. (Lockport, IL), Thelen; Gary F. (Palos Park, IL)

Assignee: NTP Incorporated (Annandale, VA)

Filed: December 6, 1999

2. United States Patent   6,067,451   May 23, 2000

Electronic mail system with RF communications to mobile processors

Abstract

A system (100) for transmitting information from one of a plurality of originating processors A-N to at least a plurality of destination processors (A-N)

Inventors: Campana, Jr.; Thomas J. (Chicago, IL),

Ponschke; Michael P. (Lockport, IL), Thelen; Gary F. (Palos Park, IL)

Assignee: NTP Incorporated (Annandale, VA)

Filed: September 28, 1998

3. United States Patent   5,631,946   May 20, 1997

System for transferring information from a RF receiver to a processor under control of a program stored by the processor and method of operation thereof

Abstract

A method and system of transferring information from a RF receiver to a processor under control of a program stored by the processor is disclosed.

Inventors: Campana, Jr.; Thomas J. (Chicago, IL),

Ponschke; Michael P. (Lockport, IL), Thelen; Gary F. (Palos Park, IL)

Assignee: NTP, Incorporated (Annandale, VA)

Filed: May 16, 1995

4. United States Patent   6,272,190   August 7, 2001

System for wireless transmission and receiving of information and method of operation thereof

Abstract

The invention is a method of data transmission.

Inventors: Campana, Jr.; Thomas J. (Chicago, IL)

Assignee: NTP Incorporated (Annandale, VA)

Filed: February 10, 1998

5. United States Patent   6,198,783   March 6, 2001

System for wireless serial transmission of encoded information

Abstract

The present invention provides a method for transmission of serial information over a wireless channel.

Inventors: Campana, Jr.; Thomas J. (Chicago, IL)

Assignee: NTP Incorporated (Annandale, VA)

Filed: May 12, 1998

6. United States Patent   5,751,773   May 12, 1998

System for wireless serial transmission of encoded information

Abstract

The present invention provides reconstruction and resynchronization of wireless serial transmissions which are subject to fading causing erroneous uncorrectable bit errors exceeding the error correction code correction capacity present in frames of digitally encoded data.

Inventors: Campana, Jr.; Thomas J. (Chicago, IL)

Assignee: NTP Incorporated (Annandale, VA)

Filed: February 7, 1995

7. United States Patent   5,745,532   April 28, 1998

System for wireless transmission and receiving of information and method of operation thereof

Abstract

A system and method is disclosed for wireless transmission of information which is subject to fading by using a RF carrier modulated with a subcarrier modulated with

the information.

Inventors: Campana, Jr.; Thomas J. (Chicago, IL)

Assignee: NTP Incorporated (Annandale, VA)

Filed: June 2, 1995

8. United States Patent   5,438,611   August 1, 1995

Electronic mail system with RF communications to mobile processors originating from outside of the electronic mail system and method of operation thereof

Abstract

A system for transmitting originated information from one of a plurality of originating processors in an electronic mail system to at least one of a plurality of destination processors in an electronic mail system in accordance with the invention includes
Inventors: Campana, Jr.; Thomas J. (Chicago, IL),

Ponschke; Michael P. (Lockport, IL), Thelen; Gary F. (Palos Park, IL)

Assignee: NTP Incorporated (Annandale, VA)

Filed: May 23, 1994

Court of Appeals for the Federal Circuit

Palm Inc.

Sprint Nextel   T-Mobile

Verizon Wireless

BPAI: Board of Patent Appeals

and Inteferences

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Paul Allen

Interval Licensing LLC

Defendants

Office Depot

Google

Yahoo!

Netflix

Officemax

YouTube

Staples

eBay

Facebook

AOL

1. United States Patent   6,034,652   March 7, 2000

Attention manager for occupying the peripheral attention of a person in the vicinity of a display device

Abstract

An attention manager presents information to a person in the vicinity of a display device in a manner that engages at least the peripheral attention of the person. The information is embodied by one or more sets of content data (e.g., video or audio data). Each set of content data is formulated by a content provider and made available for use by content display systems.

Inventors: Freiberger; Paul A. (San Mateo, CA),

Assignee: Interval Research Corporation (Palo Alto, CA)

Filed: March 22, 1996

2. United States Patent   6,788,314   September 7, 2004

Attention manager for occupying the peripheral attention of a person in the vicinity of a display device

Abstract

An attention manager presents information to a person in the vicinity of a display device in a manner that engages at least the peripheral attention of the person. The information is embodied by one or more sets of content data (e.g., video or audio data). Each set of content data is formulated by a content provider and made available for use by content display systems.

Inventors: Freiberger; Paul A. (San Mateo, CA),

Assignee: Interval Research Corporation (Palo Alto, CA)

Filed: March 20, 2000

3. United States Patent   6,263,507   July 17, 2001
Browser for use in navigating a body of information, with particular application to browsing
information represented by audiovisual data

Abstract
The invention facilitates and enhances review of a body of information (that can be
represented by a set of audio data, video data, text data or some combination of the
three), enabling the body of information to be quickly reviewed to obtain an overview of
the content of the body of information and allowing flexibility in the manner in which
the body of information is reviewed.
Inventors: Ahmad; Subutai (Palo Alto, CA),

Assignee: Interval Research Corporation (Palo Alto, CA)

Filed: December 5, 1996

4. United States Patent   6,757,682   June 29, 2004
Alerting users to items of current interest

Abstract
Disseminating to a participant an indication that an item accessible by the participant
via a network is of current interest is disclosed. An indication that the item is of
current interest is received in real time. The indication is processed. The participant is
informed that the item is of current interest.
Inventors: Naimark; Michael (San Francisco, CA),

Assignee: Interval Research Corporation (Palo Alto, CA)

Filed: September 7, 2000

Wireless Recognition   Technologies LLC

Defendants:
A9.com
Nokia

<u>Google</u>

Amazon

Ricoh Innovations

United States Patent   7,392,287   June 24, 2008

Method and apparatus for sharing information using a handheld device

Abstract

A method and apparatus for sending information to a data processing apparatus for identifying a document to share with a recipient. A handheld device is capable of communicating with the data processing apparatus. Information is captured from the document and stored in the handheld device as document data. A communications path is established between the handheld device and the data processing apparatus. The document data is sent to the data processing apparatus through the communications path. Reference documents are provided. Each reference document has reference data stored in a memory. At least a portion of the received document data is extracted as scanning data. The reference data is retrieved from the memory. The scanning data is compared with the reference data. When the scanning data matches at least a portion of the reference data of one of the reference documents, the one reference document is selected as the identified document for forwarding to the recipient.

Inventors: Ratcliff, III; Raymond F. (Plano, TX)

Assignee: Hemisphere II Investment LP (Palm Beach, FL)

Filed: March 27, 2001

Gemalto S.A.

Defendants:

HTC Corporation, HTC America Inc.,

Exedea, Inc.,

Samsung Electronics Co., LTD.,

Samsung Telecommunications America LLC,

Motorola, Inc. and

<u>Google Inc.</u>

1. United States Patent   6,308,317   October 23, 2001
Using a high level programming language with a microcontroller

Abstract

An integrated circuit card is used with a terminal. The integrated circuit card includes a memory that stores an interpreter and an application that has a high level programming language format. A processor of the card is configured to use the interpreter to interpret the application for execution and to use a communicator of the card to communicate with the terminal.

Inventors: Wilkinson; Timothy J. (London, GB), Guthery; Scott B. (Belmont, MA), Krishna; Ksheerabdhi (Cedar Park, TX), Montgomery; Michael A. (Cedar Park, TX)
Assignee: Schlumberger Technologies, Inc. (Austin, TX)
Filed: October 24, 1997

2. United States Patent   7,117,485   October 3, 2006
Using a high level programming language with a microcontroller

Abstract

An integrated circuit card is used with a terminal. The integrated circuit card includes a memory that stores an interpreter and an application that has a high level programming language format. A processor of the card is configured to use the interpreter to interpret the application for execution and to use a communicator of the card to communicate with the terminal.

Inventors: Wilkinson; Timothy J. (London, GB), Guthery; Scott B. (Belmont, MA), Krishna; Ksheerabdhi (Cedar Park, TX), Montgomery; Michael A. (Cedar Park, TX)
Assignee: Axalto SA (Montrouge, FR)
Filed: October 23, 2001

3. United States Patent   7,818,727   October 19, 2010
Using a high level programming language with a microcontroller

Abstract

An integrated circuit card is used with a terminal. The integrated circuit card includes a memory that stores an interpreter and an application that has a high level programming language format. A processor of the card is configured to use the interpreter to interpret the application for execution and to use a communicator of the

card to communicate with the terminal.

Inventors: Wilkinson; Timothy J. (London, GB), Guthery; Scott B. (Belmont, MA), Krishna; Ksheerabdhi (Cedar Park, TX), Montgomery; Michael A. (Cedar Park, TX)

Assignee: Gemalto Inc. (Austin, TX)

Filed: September 29, 2006

Vertical Computer Systems, Inc.

Defendants:

Interwoven, Inc.,

LG Electronics Inc., LG Electronics MobileComm U.S.A., Inc.,

Samsung Electronics America, Inc., Samsung Electronics Co., Ltd.

United States Patent   6,826,744   November 30, 2004

System and method for generating web sites in an arbitrary object framework

Abstract

A system and method for generating computer applications in an arbitrary object framework. The method separates content, form, and function of the computer application so that each may be accessed or modified separately. The method includes creating arbitrary objects, managing the arbitrary objects throughout their life cycle in an object library, and deploying the arbitrary objects in a design framework for use in complex computer applications.

Inventors: McAuley; Aubrey (Austin, TX)

Assignee: Vertical Computer Systems, Inc. (Austin, TX)

Filed: October 1, 1999

United States Patent   7,716,629   May 11, 2010

System and method for generating web sites in an arbitrary object framework

Abstract

A method and system for generating a computer application is disclosed. The computer application is generated on a host system in an arbitrary object framework that separates a content of said computer application, a form of said computer application and a functionality of said computer application. Arbitrary objects are created with corresponding arbitrary names of various object types for generating said content of said computer application, said form of said computer application, and said functionality of said computer application. The arbitrary objects are managed in an object library. The arbitrary objects are deployed from said object library into a design framework to create said computer application.

Inventors: McAuley; Aubrey (Austin, TX)

Assignee: Vertical Computer Systems, Inc. (Fort Worth, TX)

Filed: November 29, 2004

St.Clair IP Consultants

Defendnts:Apple, Research In Motion, HTC, Exedea,

United States Patent   5,630,163   May 13, 1997

Computer having a single bus supporting multiple bus architectures operating with different bus parameters

Abstract

A data processing system including a central processing unit and control circuitry on a single chip connected by a common bus to two or more bus devices having different sets of bus parameters. A first set of bus parameters functions as a memory bus for transfers to and from main memory, a second set of bus parameters functions as an I/O bus for I/O device transfers and a third set of bus parameters functions as a video bus for transfers to a video display. Each set of bus parameters has different timing selected to maximize transfers for the particular bus function (main memory, I/O, video or other) implemented by the bus parameters.

Inventors: Fung; Henry T. (San Jose, CA), Tsang; Siu K. (San Jose, CA),

Mitchell; Phillip M. (Milpitas, CA), Farquhar; Norman P. (San Jose, CA)

Assignee: Vadem Corporation (San Jose, CA)

Filed: May 26, 1995

United States Patent   5,710,929 January 20, 1998

Multi-state power management for computer systems

Abstract

A power conservation system for use in a computer system. The power conservation system has an activity mointor and a plurality of modes of operation. By controlling the power mode of operation in response to the activity of the computer system, the power consumption of the computer system is controlled. Coupling of circuit power and clock signals are used to control power consumption and both hardware and software components may separately or together monitor and control operation.

Inventors: Fung; Henry Tat-Sang (San Jose, CA)

Assignee: Vadem Corporation (San Jose, CA)

Filed: June 2, 1995

United States Patent   5,758,175   May 26, 1998

Multi-mode power switching for computer systems

Abstract

A power conservation system for use in a computer system. The power conservation system has an activity monitor and a plurality of modes of operation. The power conservation system has a power switching unit which couples the power supply to a selected group of the computer system circuits depending upon the power mode of operation. By controlling the power mode in response to the activity of the computer system, the power consumption of the computer system can be controlled.

Inventors: Fung; Henry Tat-Sang (San Jose, CA)

Assignee: Vadem (San Jose, CA)

Filed: December 17, 1996

United States Patent   5,892,959   April 6, 1999

Computer activity monitor providing idle thread and other event sensitive clock and power control

Abstract

A power conservation system for use in a computer system. The power system has an

activity monitor and a plurality of modes of operation. The activity monitor can place the computer system in a reduced power consumption state during periods of low activity without waiting for a period of complete inactivity. By controlling the power mode in response to the activity of the computer system, the power consumption of the computer system can be controlled.

Inventors: Fung; Henry Tat-Sang (San Jose, CA)

Assignee: Vadem (San Jose, CA)

Filed: December 17, 1996

United States Patent   6,079,025   June 20, 2000

System and method of computer operating mode control for power consumption reduction

Abstract

An activity sensing power reduction and conservation apparatus, system, and method for a computer system. The computer system has resources including a processor, a memory, and an input/output device, and an operating system for controlling the resources. At least one of the resources can be placed into in any one of three operating modes including a first mode having a first power consumption level, a second mode having a second power consumption level less than the first level, and a third mode having a third level less than the second level. The first mode may be characterized by maintaining clocking of the processor at a first clock frequency, the second mode by clocking the processor at a second clock frequency less than the first frequency or by not maintaining clocking of the processor, and the third mode by maintaining operation of the memory to preserve the integrity of any stored memory contents. During operation of the computer system in the first mode, activity is monitored to detect completion of idle threads executing on the system, and the processor clock is slowed or stopped to at least that one resource in response to the idle thread completion detection. During operation in the second mode where the processor clock is slowed or stopped, a slow or stop resource command is generated to slow or turn off clock signal to at least one of the resources in response to occurrence of a timeout condition indication received from a timer circuit.

Inventors: Fung; Henry Tat-Sang (San Jose, CA)

Assignee: Vadem (San Jose, CA)

Filed: July 23, 1998

United States Patent   5,822,610   October 13, 1998

Mappable functions from single chip/multi-chip processors for computers

Abstract

A distributed computer system comprising a plurality of engines where each engine is useable to form a separate, integrated computer system. The distributed computer system is the functional equivalent of the separate, integrated computer system. An engine on a computer chip has mappable I/O pins that provide selective and mappable access to internal chip locations. A mapper is provided on the chip for mapping the I/O pins. One or more chips with mappable pins are employed to form a computer engine.

Inventors: Fung; Henry Tat (San Jose, CA), Mitchell; Phillip Merle (San Jose, CA)

Assignee: Vadem Corporation (San Jose, CA)

Filed: November 22, 1996

2

Helferich Patent Licensing LLC

Huawei Technology   Futurewei Technology

United States Patent   7,146,157   December 5, 2006

Systems and methods for downloading audio information to a mobile device

Abstract

Devices, systems and processes for accessing and management of voice and other messages. Such devices, systems and processes employ an interface which allows the user to access and manage messages on his or her user device and, furthermore, automatically to access and manage messages on remote devices via radio frequency link. These interfaces may present users with intuitive and direct options for accessing and managing voice mail, such as, for instance, to push a designated forward button when the user desires to forward a voice mail. Such common interfaces promote more efficient and effective use and management of messaging resources because they among other things eliminate the requirement to be conversant in different interfaces, rules and protocols for the different platforms on which messages may be accessed and managed.

Inventors: Helferich; Richard J. (Encinitas, CA)

Assignee: Helferich; Richard J. (Encinitas, CA)

Thompson Investment Group, LLC (Los Angeles, CA)

Filed: April 19, 2005

United States Patent 6,087,956   July 11, 2000

Paging transceivers and methods for selectively erasing information

Abstract

A paging transceiver and method for selectively paging provides a page to a paging transceiver but does not automatically provide an associated message. The paging transceiver receives the page and alerts the user that information is waiting and provides an identifier for the information. The user can then download or otherwise act on the information at a time and at a place convenient to the user. The paging system conserves air time and the paging transceiver conserves memory by not automatically receiving the associated information. The paging transceiver can receive transmissions during off-peak hours and has a timer which can be programmed so that information is delivered at a desired time. The paging transceiver allows a user to erase information stored at the paging transceiver and corresponding information stored at a remote system. When information is erased, the paging transceiver preferably keeps the identifier in memory and does not write over the message. Thus, if a user subsequently desires to retrieve the message, the paging transceiver can either recover the information from its memory or it can transmit the message identifier to the system and the system can redeliver the message. By being able to remotely erase information, a user can conserve memory space in remote systems and otherwise control remotely stored information.

Inventors: Helferich; Richard J. (Chapel Hill, NC)

Appl. No.: 08/934,132

Filed: September 19, 1997

United States Patent 6,097,941   August 1, 2000

User interface for voice message access

Abstract

Devices, systems and processes for accessing and management of voice and other messages. Such devices, systems and processes employ an interface which allows the user to access and manage messages on his or her user device and, furthermore, automatically to access and manage messages on remote devices via radio frequency link. These interfaces may present users with intuitive and direct options for accessing and managing voice mail, such as, for instance, to push a designated forward button

when the user desires to forward a voice mail. Such common interfaces promote more efficient and effective use and management of messaging resources because they among other things eliminate the requirement to be conversant in different interfaces, rules and protocols for the different platforms on which messages may be accessed and managed.

Inventors: Helferich; Richard J. (Chapel Hill, NC)

Appl. No.:   08/989,874

Filed: December 12, 1997

6087956

6097941

United States Patent   7,003,304   February 21, 2006

Paging transceivers and methods for selectively retrieving messages

Abstract

A paging transceiver and method for selectively paging provides a page to a paging transceiver but does not automatically provide an associated message. The paging transceiver receives the page and alerts the user that a message is waiting and preferably provides a short description of the message. The user can then download or otherwise act on the message at a time and at a place convenient to the user. The user can therefore place the paging transceiver in a location where it can easily receive and reply to the message. The paging system conserves air time and the paging transceiver conserves memory by not automatically receiving the associated messages. The user can determine the time at which the paging transceiver receives transmissions, such as during off-peak hours. The messages stored by the systems and delivered to the paging transceiver may be of different types, such as voice, text, audio, or even video. In addition to messages, the paging system can store other information for the user, such as songs or video clips that the user can sample or updates on weather or stock rates.

Inventors: Helferich; Richard J. (Chapel Hill, NC)

Assignee: Thompson Investment Group, LLC (Los Angeles, CA)

Richard J. Helferich (Encinitas, CA)

Filed: October 13, 2000

United States Patent   6,983,138   January 3, 2006

User interface for message access

Abstract

Devices, systems and processes for accessing and management of voice and other messages. Such devices, systems and processes employ an interface which allows the user to access and manage messages on his or her user device and, furthermore, automatically to access and manage messages on remote devices via radio frequency link. These interfaces may present users with intuitive and direct options for accessing and managing voice mail, such as, for instance, to push a designated forward button when the user desires to forward a voice mail. Such common interfaces promote more efficient and effective use and management of messaging resources because they among other things eliminate the requirement to be conversant in different interfaces, rules and protocols for the different platforms on which messages may be accessed and managed.

Inventors: Helferich; Richard J. (Encinitas, CA)

Assignee: Helferich; Richard J. (Encinitas, CA)

Thompson Investment Group, LLC (Los Angeles, CA)

Filed: February 23, 2000

United States Patent   7,280,838   October 9, 2007

Paging transceivers and methods for selectively retrieving messages

Abstract

A paging transceiver and method for selectively paging provides a page to a paging transceiver but does not automatically provide an associated message. The paging transceiver receives the page and alerts the user that a message is waiting and preferably provides a short description of the message. The user can then download or otherwise act on the message at a time and at a place convenient to the user. The user can therefore place the paging transceiver in a location where it can easily receive and reply to the message. The paging system conserves air time and the paging transceiver conserves memory by not automatically receiving the associated messages. The user can determine the time at which the paging transceiver receives transmissions, such as during off-peak hours. The messages stored by the systems and delivered to the paging transceiver may be of different types, such as voice, text, audio, or even video. In addition to messages, the paging system can store other information for the user,

such as songs or video clips that the user can sample or updates on weather or stock rates.

Inventors: Helferich; Richard J. (Encinitas, CA)

Assignee: Helferich; Richard J. (Encinitas, CA)

The Thompson Investment Group LLC (Chatsworth, CA)

Filed: March 18, 2005

United States Patent   7,376,432   May 20, 2008

Paging transceivers and methods for selectively retrieving messages

Abstract

A paging transceiver and method for selectively paging provides a page to a paging transceiver but does not automatically provide an associated message. The paging transceiver receives the page and alerts the user that a message is waiting and preferably provides a short description of the message. The user can then download or otherwise act on the message at a time and at a place convenient to the user. The user can therefore place the paging transceiver in a location where it can easily receive and reply to the message. The paging system conserves air time and the paging transceiver conserves memory by not automatically receiving the associated messages. The user can determine the time at which the paging transceiver receives transmissions, such as during off-peak hours. The messages stored by the systems and delivered to the paging transceiver may be of different types, such as voice, text, audio, or even video. In addition to messages, the paging system can store other information for the user, such as songs or video clips that the user can sample or updates on weather or stock rates.

Inventors: Helferich; Richard J. (Encinitas, CA)

Assignee: Wireless Science, LLC (Chicago, IL)

Filed: March 17, 2005

United States Patent   7,499,716   March 3, 2009

System and method for delivering information to a transmitting and receiving device

Abstract

The present invention provides systems and method for delivering information to a transmitting and receiving device. The device receives a notification alerting a user of the device that information is available to be obtained and, in some embodiments, providing a short description of the information. After receiving the notification at the

device, the user can then use the device to obtain or otherwise act on the information at a time and at a place convenient to the user.

Inventors: Helferich; Richard J. (Encinitas, CA)

Assignee: Wireless Science, LLC (Chatsworth, CA)

Filed: April 7, 2006

Alcatel-Lucent
Multimedia Patent Trust

Defendants:

Apple Inc. ,

Canon, Inc. , Canon U.S.A., Inc. ,

LG Electronics, Inc. , LG Electronics Mobilecomm U.S.A., Inc. and

LG Electronics U.S.A., Inc.

Tivo Inc.

1.United States Patent 4,958,226 September 18, 1990

Conditional motion compensated interpolation of digital motion video

Abstract

Motion digital video is encoded and decoded by a motion compensated interpolation method and apparatus. In accordance with the method, selected frames of the video are interpolated in the decoder with the aid of interpolation correction codes that are generated in the encoder and sent to the decoder. In an encoder embodiment that interpolates half of the frames, every other frame is encoded and decoded within the encoder. The decoded versions of adjacent frames are appropriately combined and compared to the interleaved camera frame that is to be interpolated in the decoder. The differences, which correspond to "pels correction" information, are encoded and quantized. Those that exceed a predetermined threshold value are added to the encoder's output buffer. The inverse operation is carried out in the decoder. That is every pair of decoded frames is averaged and combined with the decoded "pels correction" information to form the interpolated frames.

Inventors: Haskell; Barin G. (Tinton Falls, NJ), Puri; Atul (Bronx, NY)

Assignee: AT&T Bell Laboratories (Murray Hill, NJ)

Filed: September 27, 1989

  Lucent   AT&T

2.United States Patent   5,136,377   August 4, 1992
Adaptive non-linear quantizer

Abstract

A quantizer, with quantization control that is sensitive to input signal characteristics and to output buffer fullness responds to an input signal that is divided into blocks and DCT transformed. The transformed signal is analyzed to develop a brightness correction and to evaluate the texture of the image and the change in texture in the image. Based on these, and in concert with the human visual perception model, perception threshold signals are created for each subband of the transformed signal. Concurrently, scale factors for each subband of the transformed signal are computed, and a measure of variability in the transformed input signal is calculated. A measure of the fullness of the buffer to which the quantizer sends its encoded results is obtained, and that measure is combined with the calculated signal variability to develop a correction signal. The correction signal modifies the perception threshold signals to develop threshold control signals that are applied to the quantizer. The scale factors are also applied to the quantizer, as well as a global target distortion measure.
Inventors: Johnston; James D. (Warren, NJ), Knauer; Scott C. (Mountainside, NJ), Matthews; Kim N. (Watchung, NJ), Netravali; Arun N. (Westfield, NJ), Petajan; Eric D. (Watchung, NJ), Safranek; Robert J. (New Providence, NJ), Westerink; Peter H. (Newark, NJ)
Assignee: AT&T Bell Laboratories (Murray Hill, NJ)
Filed: December 11, 1990

3.United States Patent   5,227,878   July 13, 1993
Adaptive coding and decoding of frames and fields of video

Abstract

Improved compression of digital signals relating to high resolution video images is accomplished by an adaptive and selective coding of digital signals relating to frames and fields of the video images. Digital video input signals are analyzed and a coding type signal is produced in response to this analysis. This coding type signal may be

used to adaptively control the operation of one or more types of circuitry which are used to compress digital video signals so that less bits, and slower bit rates, may be used to transmit high resolution video images without undue loss of quality. For example, the coding type signal may be used to improve motion compensated estimation techniques, quantization of transform coefficients, scanning of video data, and variable word length encoding of the data. The improved compression of digital video signals is useful for video conferencing applications and high definition television, among other things.

Inventors: Puri; Atul (New York, NY), Aravind; Rangarajan (Matawan, NJ)

Assignee: AT&T Bell Laboratories (Murray Hill, NJ)

Filed: November 15, 1991

4.United States Patent   5,500,678   March 19, 1996

Optimized scanning of transform coefficients in video coding

Abstract

An improved scanning apparatus and method which allows for increased coding efficiency over conventional zigzag scans is disclosed. The invention advantageously allows for total compatibility with the MPEG-1 standard, and accomodates video sequences which may be composed of both the progressive and interlaced format frames.

Inventors: Puri; Atul (Riverdale, NY)

Assignee: AT&T Corp. (Murray Hill, NJ)

Filed: March 18, 1994

Hybrid Audio LLC

HTC

Defendants:

High Tech Computer Corp., a/k/a HTC Corp., HTC (B.V.I.) Corp.,

HTC America, Inc.,

Dell, Inc.,

Exedea, Inc. and

Apple, Inc.

United States Patent   RE40,281   April 29, 2008

Signal processing utilizing a tree-structured array

Abstract

.[.A communication system for sending a sequence of symbols on a communication link. The system includes a transmitter for placing information indicative of the sequence of symbols on the communication link and a receiver for receiving the information placed on the communication link by the transmitter. The transmitter includes a clock for defining successive frames, each of the frames including M time intervals, where M is an integer greater than 1. A modulator modulates each of M carrier signals with a signal related to the value of one of the symbols thereby generating a modulated carrier signal corresponding to each of the carrier signals. The modulated carriers are combined into a sum signal which is transmitted on the communication link. The carrier signals include first and second carriers, the first carrier having a different bandwidth than the second carrier. In one embodiment, the modulator includes a tree-structured array of filter banks having M leaf nodes, each of the values related to the symbols forming an input to a corresponding one of the leaf nodes. Each of the nodes includes one of the filter banks. Similarly, the receiver can be constructed of a tree-structured array of sub-band filter banks for converting M time-domain samples received on the communication link to M symbol values..]. .Iadd.Signal processing is performed by splitting a signal into subbands using a plurality of filter banks connected to form a tree-structured array. The filter banks are connected so that the signal is split into subbands of different size. The subbands can be designed to approximate the bands of the human auditory system for audio signal processing applications. Reconstruction of signals using a plurality of synthesis filter banks connected to form a tree-structured array is also performed..Iaddend.

Inventors: Tzannes; Michael A. (Lexington, MA), Heller; Peter N. (Somerville, MA), Stautner; John P. (The Woodlands, TX), Morrell; William R. (Seattle, WA), Jayasimha; Sriram (Hyderabad, IN)

Assignee: Aware, Inc. (Bedford, MA)

Filed: November 23, 2004

Hopewell Culture & Design LLC   HTC

Defendants:

Adobe Systems Incorporated ,

Apple Inc ,

HTC America Inc ,

LG Electronics Mobilecomm USA Inc ,

Nokia Inc ,

Palm Inc ,

Quickoffice Inc ,

Samsung Electronic USA Inc , Samsung Telecommunications America LLC and Motorola Mobility Inc

   United States Patent   7,171,625   January 30, 2007

Double-clicking a point-and-click user interface apparatus to enable a new interaction with content represented by an active visual display element

Abstract

The invention enables a new type of interaction with content represented by an active visual display element in response to double-clicking a point-and-click user interface apparatus when the active visual display element is selected.

Inventors: Sacchi; Cristiano (San Francisco, CA)

Assignee: Actify, Inc. (San Francisco, CA)

Filed: June 18, 2002

Summit 6 LLC

                        PictureWorks Technology, Inc.   Internet Pictures Corp. (IPIX)   AdMission Corp.

Defendants:

Research in Motion Corporation , Research in Motion Limited ,

Samsung Electronics Co., Ltd. , Samsung Telecommunications America

LLC ,

Multiply, Inc. ,

Facebook, Inc. and

Photobucket Corp.

United States Patent   6,895,557   May 17, 2005

Web-based media submission tool

Abstract

The present invention, generally speaking, provides an improved web-based media submission tool. As with some existing tools, operation of the tool is drag and drop or the user can "click" to browse a directory to select media objects. Unlike existing tools, the tool provides the user an opportunity to confirm the submission, for example by generating a thumbnail image of an image file that has been dragged and dropped. Batch submission is provided for in which a user drags and drops a plurality of images or other media objects. Submission from a web page to a web page is also provided for. The submission tool is configurable to perform a variable amount of intellegent preprocessing on media objects prior to upload. In the case of digital images, the tool can perform sizing and formatting, for example. Information capture is performed with information being uploaded together with the media objects. In an exemplary embodiment, information capture is both user-transparent (e.g., user ID and/or password) and user-visible (e.g., the user can provide captions for media objects). The submission of information about the user and the media objects facilitates automatic integration of the media objects within existing databases.

Inventors: Wood; Lisa T. (Danville, CA), Lewis; Scott M. (Danville, CA), Fried; Robin T. (Berkeley, CA)

Assignee: IPIX Corporation (San Ramone, CA)

Filed: July 21, 1999

United States Patent   7,765,482   July 27, 2010

Web-based media submission tool

Abstract

The present invention, generally speaking, provides an improved web-based media submission tool. As with some existing tools, operation of the tool is drag and drop or the user can "click" to browse a directory to select media objects. Unlike existing tools, the tool provides the user an opportunity to confirm the submission, for example by

generating a thumbnail image of an image file that has been dragged and dropped. Batch submission is provided for in which a user drags and drops a plurality of images or other media objects. Submission from a web page to a web page is also provided for. The submission tool is configurable to perform a variable amount of intelligent preprocessing on media objects prior to upload. In the case of digital images, the tool can perform sizing and formatting, for example. Information capture is performed with information being uploaded together with the media objects. In an exemplary embodiment, information capture is both user-transparent (e.g., user ID and/or password) and user-visible (e.g., the user can provide captions for media objects). The submission of information about the user and the media objects facilitates automatic integration of the media objects within existing databases.

Inventors: Wood; Lisa T. (Danville, CA), Lewis; Scott M. (Danville, CA), Fried; Robin T. (Berkeley, CA)

Assignee: Summit 6 LLC (Dallas, TX)

Filed: October 8, 2004

Illinois Computer Research LLC

1.United States Patent   7,111,252   September 19, 2006

Enhancing touch and feel on the internet

Abstract

A system for enabling touch and feel over the internet provides a three-dimensional representation of a good being sold, that three-dimensional representation being viewable from a number of different directions. The good being sold is in a package and the package is displayed from the number of different directions. The present invention has the good being a book, and the inside and outside covers of the book are displayed and specified pages of the book can be displayed.

Inventors: Harris; Scott C. (San Diego, CA)

Filed: February 16, 2000

Illinois Computer Research LLC

Defendants:
Harpo Productions, Inc,
Sony Corporation of America and Sony Electronics Inc.

Fish & Richardson PC partner
electronic book   Sony Electronics Inc.
Illinois Computer Research LLC

Illinois Computer Research LLC

Defendant:
HarperCollins Publishers, Inc.
HarperCollins Publishers, LLC
Random House, Inc.
Simon & Schuster, Inc.

H-W

H-W   H-W Technology, L.C.

Defendant:
Apple Inc
Research In Motion Limited
Amazon.Com Inc Amazon Payments, Inc.
HTC Corporation HTC America Inc
LG Electronics, Inc. LG Electronics U.S.A., Inc.
eBay, Inc.
Hotels.com LP
Google, Inc.
Expedia, Inc.

Priceline.com LLC

Orbitz Worldwide, Inc.

Buy.com Inc.

Motorola Solutions, Inc. Motorola Mobility, Inc.

Samsung Electronics Co. Ltd Samsung Electronics America, Inc.

Samsung Telecommunications America LLC

Kayak Software Corporation d/b/a Kayak.com

Microsoft Corporation

Nokia Corporation Nokia Inc

Sony Ericsson Mobile Communications AB

Sony Ericsson Mobile Communications (USA) Inc

Kyocera Corporation Kyocera International, Inc.

Kyocera Communications, Inc. Kyocera America, Inc.

Verizon Communications Inc

United States Patent   7,525,955   April 28, 2009

Internet protocol (IP) phone with search and advertising capability

IP

Abstract

A software platform in an Internet Protocol (IP) phone having the ability to be used with different communication infrastructures such as broadband, wireless communication and Plain Old Telephone System (POTS) service. Further, the software platform in the IP phone has the ability to be used with different applications operating on the IP phone. Further, the IP phone has the ability to perform additional functionality than traditional Public Switched Telephone Network (PSTN) phones, such as searches and advertising, given its ability to converge voice and data within a single terminal.

Inventors: Velez-Rivera; Carlos J. (Mayaguez, PR), Olivares-Arocho; Inaki (Mayaguez, PR), Cruz-Rivera; Jose L. (Rincon, PR)

Assignee: Commuca, Inc. (Erie, CO)

Filed: March 17, 2005

HTC   RIM

MobileMedia Ideas vs. HTC

United States Patent   5,490,170   February 6, 1996

Coding apparatus for digital signal

Assignee: Sony Corporation (Tokyo, JP)

Filed: November 30, 1993

2. United States Patent   5,737,394   April 7, 1998

Portable telephone apparatus having a plurality of selectable functions activated by the use of dedicated and/or soft keys

Assignee: Sony Corporation (Tokyo, JP) Sony Electronics (Park Ridge, NJ)

Filed: February 6, 1996

3. United States Patent   5,732,390   March 24, 1998

Speech signal transmitting and receiving apparatus with noise sensitive volume control

Inventors: Katayanagi; Keiichi (Shinagawa-ku, Tokyo, JP),

Filed: August 12, 1996

4. United States Patent   6,070,068   May 30, 2000

Communication terminal device and method

for controlling a connecting state of a call into a desired connection state upon a predetermined operation by a user

Assignee: Sony_Corporation (Tokyo, JP)

Filed: March 14, 1997

5. United States Patent   6,002,390   December 14, 1999

Text input device and method

Assignee: Sony Corporation (Tokyo, JP)

Filed: November 21, 1997

6. United States Patent   6,393,430   May 21, 2002

Method and system for automatically recording music data files

by using the hard drive of a personal computer

as an intermediate storage medium

Assignee: Sony Corporation (Tokyo, JP) Sony Electronics Inc. (Park Ridge, NJ)

Filed: May 8, 1998

7. United States Patent   6,446,080   September 3, 2002

Method for creating, modifying, and playing a custom playlist, saved as a virtual CD,

to be played by a digital audio/visual actuator device

Assignee: Sony Corporation (Tokyo, JP)   Sony Electronics Inc. (Park Ridge, NJ)

Filed: May 8, 1998

8. United States Patent   6,389,301   May 14, 2002

Portable radio information terminal apparatus, display screen operating method,

recording medium, and microcomputer apparatus

Assignee: Sony Corporation (Tokyo, JP)

Filed: December 23, 1998

9. United States Patent   6,871,048   March 22, 2005

Mobil communication apparatus and information providing system

using the mobile communication apparatus

Assignee: Sony Corporation (Tokyo, JP)

Filed: April 27, 1999

10. United States Patent   6,441,828   August 27, 2002

Image display apparatus

Assignee: Sony Corporation (Tokyo, JP)

Filed: September 8, 1999

11. United States Patent   6,760,477   July 6, 2004

Method and apparatus

for entering data strings including Hangul (Korean) and ASCII characters

Assignee: Sony Corporation (Tokyo, JP) Sony Electronics Inc. (Park Ridge, NJ)

Filed: July 18, 2001

12. United States Patent   RE39,231   August 8, 2006

Communication terminal equipment and call incoming control method

Assignee: Sony Corporation (Tokyo, JP)

Filed: November 30, 2001

13. United States Patent   7,349,012   March 25, 2008

Imaging apparatus with higher and lower resolution converters and a compression unit to compress decreased resolution image data

Assignee: Sony Corporation (Tokyo, JP)

Filed: August 26, 2003

14. United States Patent   7,313,647   December 25, 2007

Storage and reproduction apparatus

Assignee: Sony Corporation (Tokyo, JP)

Filed: June 17, 2004

15. United States Patent   5,977,887   November 2, 1999

Data storage apparatus

Assignee: <u>Nokia Mobile Phones</u> Limited (Espoo, FI)

Filed: May 3, 1993

16. United States Patent   5,479,476   December 26, 1995

Mobile telephone having groups of user adjustable operating characteristics for facilitating adjustment of several operating characteristics

Assignee: Nokia Mobile Phones Ltd. (Salo, FI)

Filed: February 4, 1994

17. United States Patent   5,845,219   December 1, 1998

Mobile station having priority call alerting function during silent service mode

Assignee: Nokia Mobile Phones Limited (Salo, FI)

Filed: September 4, 1996

18. United States Patent   6,055,439   April 25, 2000

Mobile telephone user interface

Assignee: Nokia Mobile Phones Limited (Salo, FI)

Filed: November 5, 1996

19. United States Patent   6,049,796   April 11, 2000

Personal digital assistant with real time search capability

Assignee: <u>Nokia</u> Mobile Phones Limited (Salo, FI)

Filed: February 24, 1997

20. United States Patent   6,427,078   July 30, 2002

Device for personal communications, data collection and data processing, and a circuit card

Assignee: Nokia Mobile Phones Ltd. (Salo, FI)

Filed: February 27, 1997

21. United States Patent   5,915,239   June 22, 1999
Voice-controlled telecommunication terminal

Assignee: Nokia Mobile Phones Ltd. (Espoo, FI)
Filed: August 26, 1997

22. United States Patent   6,043,760   March 28, 2000
Language-dependent letter input by means of number keys

Assignee: Nokia Mobile Phones Ltd. (Espoo, FI)
Filed: February 2, 1998

23. United States Patent   6,253,075   June 26, 2001
Method and apparatus for incoming call rejection

Assignee: Nokia Mobile Phones Ltd. (Espoo, FI)
Filed: December 16, 1998

24. United States Patent   5,841,979   November 24, 1998
Enhanced delivery of audio data

Assignee: Information Highway Media Corp. (Cupertino, CA)
Filed: May 7, 1996

25. United States Patent   6,549,942   April 15, 2003
Enhanced delivery of audio data for portable playback

Assignee: audiohighway.com (Cupertino, CA)
Filed: July 10, 2000

Nuance Communications vs.Vlingo

Nuance Communications Inc.

V   Vlingo Corp.   Virtual Assistance

OSX

United States Patent   6,487,534   November 26, 2002

Distributed client-server speech recognition system

Abstract

A distributed speech recognition system includes at least one client station and a server station connected via a network, such as Internet. The client station includes means for receiving the speech input signal from a user. A speech controller directs at least part of the speech input signal to a local speech recognizer. The, preferably limited, speech recognizer is capable of recognizing at least part of the speech input, for instance a spoken command for starting full recognition. In dependence on the outcome of the recognition, the speech controller selectively directs a part of the speech input signal via the network to the server station. The server station includes means for receiving the speech equivalent signal from the network and a large/huge vocabulary speech recognizer for recognizing the received speech equivalent signal.

Inventors: Thelen; Eric (San Jose, CA), Besling; Stefan (San Jose, CA)

Assignee: U.S. Philips Corporation (New York, NY)

Koninkijke Phillips Electronics N.V. (Eindhoven, NL)

Filed: March 23, 2000

United States Patent   6,785,653   August 31, 2004

Distributed voice web architecture and associated components and methods

Abstract

A speech-enabled distributed processing system forming a Voice Web includes a gateway, one or more voice content sites coupled to the gateway over a wide area network, and a browser coupled to the gateway over a network, which may or may not be the wide area network. The gateway receives telephone calls from one or more users over telephony connections and performs endpointing of speech of each user. The browser provides the gateway with information enabling the gateway to selectively direct the endpointed speech to a voice content site via the wide area network. The gateway outputs the endpointed speech in the form of application protocol requests onto the wide area network to the appropriate site, as specified by the browser, or to the browser. The gateway receives prompts in the form of application protocol responses from the browser or a voice content site and plays the prompts to the

appropriate user over the telephony connection. While accessing a selected voice content site, the gateway reroutes the endpointed speech to the browser if the endpointing result represents a hotword candidate.

Inventors: White; James E. (San Carlos, CA), Lennig; Matthew (Palo Alto, CA)

Assignee: Nuance Communications (Menlo Park, CA)

Filed: May 1, 2000

United States Patent   6,839,669   January 4, 2005

Performing actions identified in recognized speech

Abstract

A computer is used to perform recorded actions. The computer receives recorded spoken utterances of actions. The computer then performs speech recognition on the recorded spoken utterances to generate texts of the actions. The computer then parses the texts to determine properties of the actions. After parsing the texts, permits the user to indicate that the user has reviewed one or more actions. The computer then automatically carries out the actions indicated as having been reviewed by the user.

Inventors: Gould; Joel M. (Winchester, MA), Bamberg; Paul G. (Marlborough, MA), Ingold; Charles E. (Bedford, MA), Bayse; Kenneth J. (Sutton, MA), Elkins; Michael L. (Framingham, MA), Matus; Roger L. (Boxborough, MA), Fieleke; Eric (Medford, MA)

Assignee: ScanSoft, Inc. (Peabody, MA)

Filed: June 10, 1999

United States Patent   7,058,573   June 6, 2006

Speech recognition system to selectively utilize different speech recognition techniques over multiple speech recognition passes

Abstract

Method and apparatus for multi-pass speech recognition. An input device receives spoken input. A processor performs a first pass speech recognition technique on the spoken input and forms first pass results. The first pass results include a number of alternative speech expressions, each having an assigned score related to the certainty that the corresponding expression correctly matches the spoken input. The processor selectively performs a second pass speech recognition technique on the spoken input according to the first pass results. Preferably, the second pass attempts to correctly match the spoken input to only those expressions which were identified during the first pass. Otherwise, if one of the expressions identified by the first pass is assigned a

score higher than a predetermined threshold (e.g., 95%), the second pass is not performed. Because the second pass is performed only when necessary, the invention recognizes speech with a faster average speed for a given accuracy in comparison to prior systems. Alternately, the first pass results identify a characteristic of the spoken input. The characteristic can be the gender of the speaker or a type of telephone the speaker is calling from. In which case, the second pass speech recognition technique is selected from a plurality of speech recognition techniques according to the characteristic identified by the first pass. Because the selected second pass technique is specific to the characteristic of the spoken input, the second pass technique can perform speech recognition faster for a given accuracy than a technique which is not specific.

Inventors: Murveit; Hy (Portola Valley, CA), Kannan; Ashvin (Redwood City, CA), Shahshahani; Ben (Capitola, CA), Leggetter; Chris (Mountain View, CA), Knill; Katherine (Mountain View, CA)

Assignee: Nuance Communications Inc. (Menlo Park, CA)

Filed: April 20, 1999

United States Patent   7,127,393   October 24, 2006

Dynamic semantic control of a speech recognition system

Abstract

A method and apparatus are provided for automatically recognizing words of spoken speech using a computer-based speech recognition system according to a dynamic semantic model. In an embodiment, the speech recognition system recognizes speech and generates one or more word strings, each of which is a hypothesis of the speech, and creates and stores a probability value or score for each of the word strings. The word strings are ordered by probability value. The speech recognition system also creates and stores, for each of the word strings, one or more keyword-value pairs that represent semantic elements and semantic values of the semantic elements for the speech that was spoken. One or more dynamic semantic rules are defined that specify how a probability value of a word string should be modified based on information about external conditions, facts, or the environment of the application in relation to the semantic values of that word string. A speech recognition application, upon receiving the keyword-value pairs, instructs the speech recognizer to modify one or more of the probability values, according to the dynamic semantic rules. The dynamic semantic rules are applied to the word strings and the keyword-value pairs. The speech recognizer modifies one or more of the probability values, re-orders the word strings,

and returns control to the application. As a result, the speech recognizer may adjust dynamically to a changing likelihood that a speaker uttered a particular utterance, as the application executes, depending on the context of the application and the external factors.

Inventors: Phillips; Michael S. (Belmont, MA), Barnard; Etienne (Somerville, MA), Dahan; Jean-Guy (Brookline, MA), Metzger; Michael J. (Cambridge, MA)

Assignee: Speech Works International, Inc. (Boston, MA)

Filed: February 10, 2003

United States Patent   5,862,178   January 19, 1999

Method and apparatus
for speech transmission in a mobile communications system

Abstract

A method and apparatus for speech transmission in a telecommunications system in which a speech signal is compressed to a small number of speech coding bits by a speech coding method, and the speech coding bits are subjected to channel coding. Several different speech coding methods, which may all operate at different transmission rates, are involved in the speech transmission.

Inventors: Jarvinen; Kari (Tampere, FI),

Assignee: Nokia Telecommunications OY (Espoo, FI)

Filed: June 20, 1996

United States Patent   5,802,465   September 1, 1998

Data transmission in a radio telephone network

Abstract

For bidirectional transmission of packet data, a packet data service unit (Agent) is disposed in a digital cellular system connected to be in association with a Mobile

Switching Center, and connecting the cellular network to the date network.

Inventors: Hamalainen; Jari (Tampere, FI),

Assignee: Nokia Mobile Phones Ltd. (GB)

Filed: October 1, 1996

United States Patent   6,775,548   August 10, 2004

Access channel for reduced access delay in a telecommunications system

Abstract

A method and apparatus for accessing a telecommunications system. A channel having a plurality of data rates and a plurality of frame sizes is utilized by a mobile station to gain access to the system.

Inventors: Rong; Zhigang (Fort Worth, TX),

Assignee: Nokia Mobile Phones Ltd. (Espoo, FI)

Filed: June 22, 1998

United States Patent   6,694,135   February 17, 2004

Measurement report transmission in a telecommunications system

Abstract

A method of obtaining data messages at a radio communication network from a mobile station operating therein during downlink transfer, the method comprising the network providing a header portion of the downlink transfer with one or more unique polling codes for requesting the mobile station to transmit one or more respective data messages indicative of one or more corresponding conditions at the mobile station.

Inventors: Oksala; Jarkko (Tampere, FI),

Assignee: Nokia Mobile Phones Ltd. (Espoo, FI)

Filed: December 29, 1999

United States Patent   6,359,904   March 19, 2002

Data transfer in a mobile telephone network

Abstract

The scope of the present invention is a method for data transfer in a digital mobile communications system, in which method it is handled data in certain layers according to certain protocols,

Inventors: Hamalainen; Jari (Tampere, FI),

Assignee: Nokia Mobile Phone Ltd. (Espoo, FI)

Filed: August 14, 1998

United States Patent   5,946,651   August 31, 1999

Speech synthesizer employing post-processing for enhancing the quality of the synthesized speech

Abstract

A post-processor 317 and method substantially for enhancing synthesised speech is disclosed. The post-processor 317 operates on a signal ex(n) derived from an excitation generator 211 typically comprising a fixed code book 203 and an adaptive code book 204, the signal ex(n) being formed from the addition of scaled outputs from the fixed code book 203 and adaptive code book 204.

Inventors: Jarvinen; Kari (Tampere, FI),

Assignee: Nokia Mobile Phones (Salo, FI)

Filed: August 18, 1998

United States Patent   6,882,727   April 19, 2005

Method of ciphering data transmission in a radio system

Abstract

The invention relates to a method of ciphering data transmission in a radio system, and to a user equipment using the method, and to a radio network subsystem using the method.

Inventors: Vialen; Jukka (Espoo, FI),

Assignee: Nokia Mobile Phones Ltd. (Espoo, FI)

Filed: March 6, 2000

United States Patent   7,092,672   August 15, 2006

Reporting cell measurement results in a cellular communication system

Abstract

The present invention relates to reporting cell measurement results associated with a plurality of cells of a cellular communication system. The reporting is transmitted from a station via a radio interface to receiver element of a cell serving the station.

Inventors: Pekonen; Johanna (Espoo, FI),

Assignee: Nokia Corporation (Espoo, FI)

Filed: September 19, 2000

United States Patent   7,009,940   March 7, 2006

Integrity check in a communication system

Abstract
A method of communication between a first node and a second node for a system where a plurality of different channels is provided between said first and second node. The method comprises the step of calculating an integrity output.
Inventors: Vialen; Jukka (Espoo, FI),
Assignee: Nokia Corporation (Espoo, FI)
Filed: October 10, 2001

United States Patent   7,403,621   July 22, 2008

System for ensuring encrypted communication after handover

Abstract
During connection setup with a first radio access network, a multimode mobile station sends an unprotected initial signaling message that includes information about those encryption algorithms that the multimode mobile station supports when it communicates in a second radio access network.
Inventors: Vialen; Jukka (Espoo, FI),
Assignee: Nokia Corporation (Espoo, FI)
Filed: November 6, 2001

1. United States Patent   5,634,074   May 27, 1997

Serial I/O device identifies itself to a computer through a serial interface during power on reset then it is being configured by the computer

Abstract
A self-configuring startup procedure for communications devices, including telecommunications adapters, provides unambiguous identification of the telecommunications adapter, or other communications device, connected to a serial

port.

Inventors: Devon; Mark (San Jose, CA),

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: May 7, 1993

2. United States Patent   6,343,263   January 29, 2002

Real-time signal processing system for serially transmitted data

Abstract

A computer system handling multiple applications wherein groups of I/O services are accessible through separate application programming interfaces. Each application has multiple application programming interfaces by which to access different families of I/O services, such as I/O devices.
Inventors: Knight; Holly N. (La Honda, CA),

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: August 2, 1994

3. United States Patent   5,915,131   June 22, 1999

Method and apparatus for handling I/O requests utilizing separate programming interfaces to access separate I/O services

Abstract

A computer system handling multiple applications wherein groups of I/O services are accessible through separate application programming interfaces. Each application has multiple application programming interfaces by which to access different families of I/O services, such as I/O devices.
Inventors: Knight; Holly N. (La Honda, CA),

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: May 5, 1995

4. United States Patent   5,555,369   September 10, 1996

Method of creating packages for a pointer-based computer system

Abstract

A development environment and method is provided in which a first computer system is used to develop an application for execution in a second computer system--such as a

pen-based computer--having a graphical user interface.

Inventors: Menendez; Norberto (San Jose, CA),

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: February 14, 1994

5. United States Patent   6,239,795   May 29, 2001

Pattern and color abstraction in a graphical user interface

Abstract

Systems and method for providing a user with increased flexibility and control over the appearance and behavior of objects on a user interface. Sets of objects can be grouped into themes to provide a user with a distinct overall impression of the interface.
Inventors: Ulrich; Robert R. (Mountain View, CA),

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: May 26, 1999

6. United States Patent   5,315,703   May 24, 1994

Object-oriented notification framework system

Abstract

A system for an object based notification system. The notification system is designed in a flexible manner to support change notification in an object-oriented operating system. The change notification includes a memory for storing connection information including notification routing information and connection registration information.
Inventors: Matheny; John R. (Mountain View, CA),

Assignee: Taligent, Inc. (Cupertino, CA)

Filed: December 23, 1992

7. United States Patent   6,189,034   February 13, 2001

Method and apparatus

for dynamic launching of a teleconferencing application upon receipt of a call

Abstract

In a computer system having a memory, a processor, and a network interface, a method for dynamically launching a conferencing application upon the receipt of an incoming call having the steps of: receiving an incoming call signal on the network interface; processing the incoming call signal to detect an intended recipient application; and

launching the intended recipient application.

Inventors: Riddle; Guy (Los Gatos, CA)

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: May 8, 1996

8. United States Patent   7,469,381   December 23, 2008

List scrolling and document translation, scaling, and rotation on a touch-screen display

Abstract

In accordance with some embodiments, a computer-implemented method for use in conjunction with a device with a touch screen display is disclosed. In the method, a movement of an object on or near the touch screen display is detected. In response to detecting the movement, an electronic document displayed on the touch screen display is translated in a first direction.

Inventors: Ording; Bas (San Francisco, CA)

Assignee: Apple Inc. (Cupertino, CA)

Filed: December 14, 2007

9. United States Patent   RE39,486   February 6, 2007

Extensible, replaceable network component system

Abstract

An extensible and replaceable network-oriented component system provides a platform for developing networking navigation components that operate on a variety of hardware and software computer systems.

Inventors: Cleron; Michael A. (Menlo Park, CA),

Assignee: Apple Computer, Inc. (Cupertino, CA)

Filed: April 3, 2003

10. United States Patent   5,455,854   October 3, 1995

Object-oriented telephony system

Abstract

A method and system for enabling a set of object interface application elements and telephony system elements. Particular objects may be chosen depending on which elements of the telephony system will need to be interfaced. A particular object is

capable of interfacing with one or more elements of the telephony system.

Inventors: Dilts; Michael R. (Saratoga, CA),

Assignee: Taligent, Inc. (Cupertino, CA)

Filed: October 26, 1993

11. United States Patent   5,848,105   December 8, 1998

GMSK signal processors for improved communications capacity and quality

Abstract

A method and apparatus for separating and removing distortion from interfering co-channel signals and suppressing adjacent-channel interfering signals of the Gaussian Minimum-Shift Keyed (GMSK) or other MSK type with filtering structures that exploit the cyclostationarity of the received GMSK or other MSK signals in order to accommodate a greater number (or the same number, but with greater quality) of transmitted signals received by one or more antennas than can be accommodated by existing filters.

Inventors: Gardner; William A. (Yountville, CA),

Filed: October 10, 1996

12. United States Patent   5,379,431   January 3, 1995

Boot framework architecture for dynamic staged initial program load

Abstract

A system is disclosed for use in booting a processor with a storage and attached peripherals. The system utilizes a technique for initializing a computer by resetting the storage and the one or more peripherals.

Inventors: Lemon; Steven P. (Los Gatos, CA),

Assignee: Taligent, Inc. (Cupertino, CA)

Filed: December 21, 1993

13. United States Patent   7,383,453   June 3, 2008

Conserving power by reducing voltage supplied to an instruction-processing portion of a processor

Abstract

One embodiment of the present invention provides a system that facilitates reducing static power consumption of a processor. During operation, the system receives a signal

indicating that instruction execution within the processor is to be temporarily halted.

Inventors: Youngs; Lynn R. (Cupertino, CA)

Assignee: Apple, Inc (Cupertino, CA)

Filed: August 25, 2005

1. United States Patent   6,073,036   June 6, 2000

Mobile station with touch input having automatic symbol magnification function

Abstract

A wireless user station (10), such as a cellular telephone, is provided with a touch sensitive input device, such as a touch-sensitive display (20) or a touchpad (23). A display device displays a plurality of symbols. A first location of a tactile input is detected and displayed symbols in the vicinity of the first location of the tactile input are magnified to occupy a larger display area.

Inventors: Heikkinen; Teuvo (Oulu, FI),

Assignee: Nokia Mobile Phones Limited (Espoo, FI)

Filed: April 28, 1997

2. United States Patent   6,262,735   July 17, 2001

Utilizing the contents of a message

Abstract

The scope of the present invention is a device and a method for the utilizing of information contained in a character-based message in a device having several different applications.

Inventors: Etelapera ; Esa (Kulmuntinpolku, FI)

Assignee: Nokia Mobile Phones Ltd. (Espoo, FI)

Filed: November 4, 1998

3. United States Patent   6,518,957   February 11, 2003

Communications device with touch sensitive screen

Abstract

A portable communications device which includes: a housing 4, a display for entering and displaying data, the display being disposed in the housing and having a touch sensitive screen, radio circuitry for receiving and processing communication channel data and a processor for controlling operation of the device.

Inventors: Lehtinen; Kari (Tampere, FI),

Assignee: Nokia Mobile Phones Limited (Espoo, FI)

Filed: August 8, 2000

4. United States Patent   6,714,091   March 30, 2004

VCO with programmable output power

Abstract

Voltage controlled oscillator assembly which includes at least one voltage controlled oscillator, and a regulator for regulating the output power from the at least one voltage controlled oscillator.

Inventors: Norskov; Soren (Copenhagen, DK),

Assignee: Nokia Mobile Phones Limited (Espoo, FI)

Filed: December 19, 2000

5. United States Patent   6,834,181   December 21, 2004

Mobile communication device and related construction method

Abstract

Mechanical design considerations for the antenna and speaker functionalities in a mobile communication device are combined in the construction to reduce the physical size of the device. The antenna and speaker are carried in a common chamber which enhances bass-tone production of the speaker while maintaining antenna functional design consideration.

Inventors: Kaikuranta; Terho (Piispanristi, FI),

Assignee: Nokia Corporation (Espoo, FI)

Filed: March 13, 2002

6. United States Patent   6,895,256   May 17, 2005

Optimized camera sensor architecture for a mobile telephone

Abstract

A mobile terminal includes a lens/filter combination, a single-chip camera module and an integrated mobile terminal processor. The lens/filter combination responds to an image, for providing an optical image signal.
Inventors: Harma ; Esa (Salo, FI),

Assignee: Nokia Mobile Phones Ltd. (Espoo, FI)

Filed: December 7, 2000

7. United States Patent   6,924,789   August 2, 2005

User interface device

Abstract

A keypad (7) of a mobile telephone handset comprises a keymat (17) beneath which are disposed capacitive sensing plates (20, 21). The keypad may be used in a conventional manner to enter alphanumeric data by pressing keys (18) or as a touch pad by sliding a finger over the surface of the keymat (17).
Inventors: Bick; Andrew Raymond (Surrey, GB)

Assignee: Nokia Corporation (Espoo, FI)

Filed: August 29, 2001

    iPhone   iPod

                                            iPad   iPhone

                        Smartphone   Technologies   LLC

Smartphone Technologies Inc.

Defendants:

Research In Motion Corporation, Research in Motion Ltd.,

Samsung Electronics Co. LTD.,, Samsung Electronics America, Inc.,

Samsung Telecommunications America LLC,

Sanyo Electric Co., Ltd., Sanyo Electronic Device (U.S.A.), Inc.,

LG Electronics, Inc., LG Electronics USA, Inc.,

Motorola, Inc.,

Apple, Inc.,

Pantech Wireless, Inc.,

Insight Enterprises, Inc.,

AT&T Inc. and AT&T Mobility LLC

1. United States Patent   6,950,645   September 27, 2005

Power-conserving intuitive device discovery technique in a bluetooth environment

Abstract

A method and system for managing when a responder device (a device having a transceiver for wireless communication) is operating in a discoverable mode in a wireless network of devices, such as a Bluetooth network. In the discoverable mode, the responder device is set to scan for and respond to general inquiry messages broadcast from another device (e.g., an initiator device).

Inventors: Kammer; David (Seattle, WA), Lunsford; E. Michael (San Carlos, CA)

Assignee: PalmSource, Inc. (Sunnyvale, CA)

Filed: September 28, 2000

2. United States Patent   7,024,457   April 4, 2006

E-mail synchronization between heterogeneous mail servers

Abstract

A method or system for synchronizing e-mail messages for a user, particularly for POP3 protocols. E-mail messages addressed to the user are received at an e-mail control at a local server, from an external e-mail server. The e-mail control stores each e-mail message in a consolidated e-mail storage at the local server. The e-mail control stores a message identifier for each e-mail message, in a message identifier storage at

the local server.

Inventors: Newman; Robert D. (Highland Park, IL), Schleicher; Sanford (Northbrook, IL)

Assignee: j2 Global Communications, Inc. (Hollywood, CA)

Filed: February 17, 2000

3. United States Patent   7,769,039   August 3, 2010

System configured

for complex determination of a user's busy state and

for assigning an organic "do not disturb" filter

Abstract

A system and method for complex determination of a user's busy state and for assigning a do not disturb (DND) filter. A first electronic device is configured to house a DND recognizer module. The first electronic device is further configured to store and execute a plurality of applications.

Inventors: Oral; Tolga (Winchester, MA), Schaeck; Thomas (Boeblingen, DE)

Assignee: International Business Machines Corporation (Armonk, NY)

Filed: October 5, 2006

4. United States Patent   6,711,609   March 23, 2004

Method and apparatus for synchronizing an email client on a portable computer system with an email client on a desktop computer

Abstract

A fully integrated email system for a desktop computer with an associated palmtop computer is disclosed. The portable computer has an email client for viewing incoming email messages and composing outgoing email messages.

Inventors: Boyer; Monty (Saratoga, CA), Sipher; Joseph (Sunnyvale, CA)

Assignee: PalmSource, Inc. (Sunnyvale, CA)

Filed: April 24, 2002

5. United States Patent   7,076,275   July 11, 2006

Method and system for single-step enablement of telephony functionality for a portable computer system

Abstract

A method and apparatus for automatic delivery of a phone call on a device (e.g. a portable computer system) regardless of whether other tasks are running on the operating system. A separate background task ("thread"), independent of the operating system, enables telephony functionality without regard to the mode of a graphical user interface.

Inventors: Karstens; Rich (Lake Forest Park, WA),

Assignee: PalmSource, Inc. (Sunnyvale, CA)

Filed: October 13, 2000

6. United States Patent   5,742,905   April 21, 1998

Personal communications internetworking

Abstract

A person communications internetworking provides a network subscriber with the ability to remotely control the receipt and delivery of wireless and wireline voice and text messages. The network operates as an interfaces between various wireless and wireline networks, and also performs media translation, where necessary.

Inventors: Pepe; David Matthew (Middletown, NJ),

Assignee: Bell Communications Research, Inc. (Morristown, NJ)

Filed: September 19, 1994

Smartphone Technologies LLC

Insight Enterprises Inc.

SmartPhone Technologies LLC

Linux

Bedrock Computer Technologies LLC

Defendants:

Softlayer Technologies, Inc.,

CitiWare Technology Solutions, LLC,

<u>Google Inc.,</u>

Yahoo! Inc.,

MySpace Inc.,

Amazon.com Inc.,

PayPal Inc.,

Match.com, Inc.,

AOL LLC and

CME Group Inc.

United States Patent   5,893,120   April 6, 1999

Methods and apparatus for information storage and retrieval

using a hashing technique with external chaining and on-the-fly removal of expired

data

Inventors: Nemes; Richard Michael (Brooklyn, NY)

Filed: January 2, 1997

                                        Richard Nemes

                                                            David

Garrod

                        M