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OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

	CCR	U.S. Office Action dated August 13, 2014 for Appln. No. 11/739,083				
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Examiner _____ Date Considered: _____

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of U.S. Patent Application Serial No. 12/267,852, filed November 10, 2008, which claims priority to U. S. Provisional Application No. 60/986,896 entitled "ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK" and filed November 9, 2007, the contents of which are hereby incorporated by reference in their entirety.

FIELD OF THE INVENTION

[0002] This invention relates generally to computer-implemented processes and, more specifically, to sharing of electronic files among electronic devices.

BACKGROUND OF THE INVENTION

[0003] Users of modern computing systems are increasingly finding themselves in constantly-connected, high-speed networked environments. The Web continues to be a killer application, second only to email, on the Internet. Further, customers are increasingly using more than one computing device; a customer may have a desktop computer at home, one at work, and a constantly connected "smart phone". Due to the confluence of these two trends, file management across these devices has become a problem.

[0004] Although modern devices are easily connected, they do not provide the customer a seamless environment; the customer must manually handle many aspects of that connection. With regards to file management, customers must manually move files between their devices using some protocol like email, ftp, or by posting them on the Web. These practices lead to problems that include:

[0005] • The proliferation of redundant file copies. This proliferation creates a confusing environment where the customer is unclear where the "official" or newest version of a file exists.

[0006] • The creation of an error-prone environment. Some documents, such as those associated with word processing and desktop publishing, externally reference other files. Copying such a document can break these references causing errors that the customer has to handle manually. An example of such a document is a desktop publishing document that contains a reference to an image. If that image file is not transferred along with the desktop publishing file, the image will appear as a broken link.

[0007] • Unnecessary complexity. Because devices tend to have their own filing system, customers must manage a different filing model on each of his devices. For example, instead of having a single "Movies" folder, he may have to deal with many "Movies" folders, which may be in different locations on each of his devices. Each device may also have its own security model, further complicating the matter.

[0008] That a customer has to manually move files around to ensure their accessibility on his devices is unnecessary, and is an indicator of a lack of customer-focused design in modern file systems. File systems in use today are direct offspring of systems used when graphical customer interfaces were nonexistent. Modern file system customer interfaces, such as Windows® Explorer and Mac OS X's Finder are just now starting to provide experiences that are more in line to a customer's workflow. Whereas, before, these interfaces were concerned with representing files with abstracted icons, the file's actual contents are becoming paramount in how files are organized and presented.

[0009] Problems still exist with how these newer customer interfaces are implemented. They are not completely integrated with applications, suffer from performance problems, and do not generally work well outside of a device's local file system.

[0010] There are several solutions to this problem that are in one way or another inadequate to the task:

[0011] Remote Desktop software allows a customer to remotely "see" his desktop. Remote desktop software screen-scrapes a remote machine's screen (a "server") and displays it on a screen local to the customer (a "client"). Remote desktop gives a customer access to not only his files, but also to his applications. However, this approach requires that the host machine be turned on and connected to the internet at all times. Consequently, this approach would not be appropriate for mobile hosts such as laptops. Remote desktop does not use the resources of a local machine. For full accessibility, the customer would have to keep all files and application on the host machine as any files stored on a client are not guaranteed to be accessible.

[0012] Distributed File Systems, like remote desktop software, place data on an always-connected host machine. Unlike remote desktop software, the host machine is not one on which the customer performs computing tasks. The host machine is used as a storage mechanism, and any computation performed on that machine serves to supports its use as such. Distributed file systems generally provide the right functionality for customers to share files between their devices. However, distributed file systems are usually deployed as a shared resource; that is, other customers have access to it. Because of this sharing, a customer's files may be buried deep in a filing structure, and it may not always be immediately evident to customers what kind of access they have to a particular file. Further, to use a distributed file system, the customer must always be connected to it. Files stored on a distributed file system are generally inaccessible if the customer's machine is not connected to it, unless the customer has copied or moved the files to his machine's local hard drive. However, doing so immediately creates the problem of having two filing systems for the same file, creating a mental burden on the customer.

[0013] Additionally, accessing a file located on a distributed file system tends to be slower than accessing files on the local hard drive. Modern applications are usually

written to assume that the files they access are located locally, and thus are not optimized to access remote files. When these applications are used with remote files, they can lose performance by an order of magnitude. This problem can be fixed by automatically caching often-used files on the local file system, and only synchronizing them when they have been changed. However, this separate synchronization step introduces another problem: because the synchronization process can be lengthy, the customer is never entirely sure if the file he is remotely accessing is the latest version of the file, versus an earlier one that has been marked to be updated. Further, the directory may not reflect the existence of the file at all until synchronization finishes.

[0014] FTP is similar to a distributed file system with regards to files being hosted on a remote server. However FTP generally does manifest as a "disk drive" on the customer's desktop; the customer must use special FTP client software to access an FTP server. It shares the same problem as distributed file systems, with the additional problem of weak integration with applications. Applications can generally write and read files directly to and from a distributed file system. This is not the case with FTP, as the customer has to manually use the client software to perform these operations as a separate task.

[0015] Email was originally invented for messaging. From the beginning, the model it employs to make files accessible remotely is necessarily inefficient. Email's model for making files accessible is in the form of an email "attachment". Attachments are so named because they piggy-back on a message sent from one customer to another. A customer can make a file remotely available using email by attaching the file to an email and sending it to himself. He can then retrieve the file from a remote location by accessing the message on the email server. Email used in this way is even worse than FTP as the process is even more manual: a customer must find the message containing the file before he can even access it. Further, the location in which the attachment lives is read only. If the customer, for example, were to open the file, change it, then save it back

out, the results would be ambiguous to the user because the email application, not the user, specified its location. Usually, the saved file would end up buried in an email file cache in an undisclosed area of the file system.

[0016] Flash Drives and External Disk Drives, although seemingly the most "primitive" way to ensure file availability, avoid all the problems related to network latency. However, these devices must be physically connected to the computer on which the files will be accessed. These restrictions preclude the customer from employing several effective work-flows including: using more than one computer to complete a single task (the files can only be accessed on one computer) and setting up an automated backup (the computer running the backup can't guarantee that the storage device will be connected come backup time). Further, to ensure full availability of the files, the customer must carry the device with them at all times, and must follow the associated protocols for mounting and dismounting the device.

[0017] Other problems with the prior art not described above can also be overcome using the teachings of embodiments of the present invention, as would be readily apparent to one of ordinary skill in the art after reading this disclosure.

SUMMARY OF THE INVENTION

[0018] In an embodiment, a system includes a first application executable on a first electronic device. The system further includes a second application executable on a second electronic device in communication with the first electronic device. The second electronic device is configured to store a first electronic file. Subsequent to a user modifying the first electronic file, the second application is operable to automatically transfer the modified first electronic file, or a copy thereof, to the first electronic device. The system further includes a third application executable on a third electronic device in

communication with the first electronic device. The third electronic device is configured to store a second electronic file. Subsequent to the user modifying the second electronic file, the third application is operable to automatically transfer the modified second electronic file, or a copy thereof, to the first electronic device. The first application is operable to automatically transfer the modified first electronic file or copy to the third electronic device, and automatically transfer the modified second electronic file or copy to the second electronic device.

BRIEF DESCRIPTION OF THE DRAWING

[0019] Preferred and alternative embodiments of the present invention are described in detail below with reference to the following drawings.

[0020] FIG. 1 is a schematic view of an exemplary operating environment in which an embodiment of the invention can be implemented;

[0021] FIG. 2 is a functional block diagram of an exemplary operating environment in which an embodiment of the invention can be implemented; and

[0022] FIG. 3 is a functional block diagram illustrating file sharing and/or synchronization according to an embodiment of the invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0023] An embodiment of the invention leverages remote programming concepts by utilizing processes called mobile agents (sometimes referred to as mobile objects or agent objects). Generally speaking, these concepts provide the ability for an object (the mobile agent object) existing on a first ("host") computer system to transplant itself to a second ("remote host") computer system while preserving its current execution state. The operation of a mobile agent object is described briefly below.

[0024] The instructions of the mobile agent object, its preserved execution state, and other objects owned by the mobile agent object are packaged, or "encoded," to generate a string of data that is configured so that the string of data can be transported by all standard means of communication over a computer network. Once transported to the remote host, the string of data is decoded to generate a computer process, still called the mobile agent object, within the remote host system. The decoded mobile agent object includes those objects encoded as described above and remains in its preserved execution state. The remote host computer system resumes execution of the mobile agent object which is now operating in the remote host environment.

[0025] While now operating in the new environment, the instructions of the mobile agent object are executed by the remote host to perform operations of any complexity, including defining, creating, and manipulating data objects and interacting with other remote host computer objects.

[0026] File transfer and/or synchronization, according to an embodiment, may be accomplished using some or all of the concepts described in commonly owned U. S. Patent App. No. 11/739,083, entitled "Electronic File Sharing," the entirety of which is incorporated by reference as if fully set forth herein.

[0027] FIG. 1 illustrates an example of a suitable computing system environment 100 in which one or more embodiments of the invention may be implemented. The computing system environment 100 is only one example of a suitable computing environment and is not intended to suggest any limitation as to the scope of use or functionality of the invention. Neither should the computing environment 100 be interpreted as having any dependency or requirement relating to any one or combination of components illustrated in the exemplary operating environment 100.

[0028] Embodiments of the invention are operational with numerous other general purpose or special purpose computing system environments or configurations. Examples of well known computing systems, environments, and/or configurations that

may be suitable for use with the invention include, but are not limited to, personal computers, server computers, hand-held or laptop devices, multiprocessor systems, microprocessor-based systems, set top boxes, programmable consumer electronics, network PCs, minicomputers, mainframe computers, distributed computing environments that include any of the above systems or devices, and the like.

[0029] Embodiments of the invention may be described in the general context of computer-executable instructions, such as program modules, being executed by a computer and/or by computer-readable media on which such instructions or modules can be stored. Generally, program modules include routines, programs, objects, components, data structures, etc. that perform particular tasks or implement particular abstract data types. The invention may also be practiced in distributed computing environments where tasks are performed by remote processing devices that are linked through a communications network. In a distributed computing environment, program modules may be located in both local and remote computer storage media including memory storage devices.

[0030] With reference to FIG. 1, an exemplary system for implementing the invention includes a general purpose computing device in the form of a computer 110. Components of computer 110 may include, but are not limited to, a processing unit 120, a system memory 130, and a system bus 121 that couples various system components including the system memory to the processing unit 120. The system bus 121 may be any of several types of bus structures including a memory bus or memory controller, a peripheral bus, and a local bus using any of a variety of bus architectures. By way of example, and not limitation, such architectures include Industry Standard Architecture (ISA) bus, Micro Channel Architecture (MCA) bus, Enhanced ISA (EISA) bus, Video Electronics Standards Association (VESA) local bus, and Peripheral Component Interconnect (PCI) bus also known as Mezzanine bus.

[0031] Computer 110 typically includes a variety of computer readable media. Computer readable media can be any available media that can be accessed by computer 110 and includes both volatile and nonvolatile media, removable and non-removable media. By way of example, and not limitation, computer readable media may comprise computer storage media and communication media. Computer storage media includes both volatile and nonvolatile, removable and non-removable media implemented in any method or technology for storage of information such as computer readable instructions, data structures, program modules or other data. Computer storage media includes, but is not limited to, RAM, ROM, EEPROM, flash memory or other memory technology, CD-ROM, digital versatile disks (DVD) or other optical disk storage, magnetic cassettes, magnetic tape, magnetic disk storage or other magnetic storage devices, or any other medium which can be used to store the desired information and which can be accessed by computer 110. Communication media typically embodies computer readable instructions, data structures, program modules or other data in a modulated data signal such as a carrier wave or other transport mechanism and includes any information delivery media. The term “modulated data signal” means a signal that has one or more of its characteristics set or changed in such a manner as to encode information in the signal. By way of example, and not limitation, communication media includes wired media such as a wired network or direct-wired connection, and wireless media such as acoustic, RF, infrared and other wireless media. Combinations of the any of the above should also be included within the scope of computer readable media.

[0032] The system memory 130 includes computer storage media in the form of volatile and/or nonvolatile memory such as read only memory (ROM) 131 and random access memory (RAM) 132. A basic input/output system 133 (BIOS), containing the basic routines that help to transfer information between elements within computer 110, such as during start-up, is typically stored in ROM 131. RAM 132 typically contains data and/or program modules that are immediately accessible to and/or presently being

operated on by processing unit 120. By way of example, and not limitation, FIG. 1 illustrates operating system 134, application programs 135, other program modules 136, and program data 137.

[0033] The computer 110 may also include other removable/non-removable, volatile/nonvolatile computer storage media. By way of example only, FIG. 1 illustrates a hard disk drive 140 that reads from or writes to non-removable, nonvolatile magnetic media, a magnetic disk drive 151 that reads from or writes to a removable, nonvolatile magnetic disk 152, and an optical disk drive 155 that reads from or writes to a removable, nonvolatile optical disk 156 such as a CD ROM or other optical media. Other removable/non-removable, volatile/nonvolatile computer storage media that can be used in the exemplary operating environment include, but are not limited to, magnetic tape cassettes, flash memory cards, digital versatile disks, digital video tape, solid state RAM, solid state ROM, and the like. The hard disk drive 141 is typically connected to the system bus 121 through a non-removable memory interface such as interface 140, and magnetic disk drive 151 and optical disk drive 155 are typically connected to the system bus 121 by a removable memory interface, such as interface 150.

[0034] The drives and their associated computer storage media discussed above and illustrated in FIG. 1, provide storage of computer readable instructions, data structures, program modules and other data for the computer 110. In FIG. 1, for example, hard disk drive 141 is illustrated as storing operating system 144, application programs 145, other program modules 146, and program data 147. Note that these components can either be the same as or different from operating system 134, application programs 135, other program modules 136, and program data 137. Operating system 144, application programs 145, other program modules 146, and program data 147 are given different numbers here to illustrate that, at a minimum, they are different copies. A user may enter commands and information into the computer 20 through input devices such as a keyboard 162 and pointing device 161, commonly referred to as a mouse, trackball or

touch pad. Other input devices (not shown) may include a microphone, joystick, game pad, satellite dish, scanner, or the like. These and other input devices are often connected to the processing unit 120 through a user input interface 160 that is coupled to the system bus, but may be connected by other interface and bus structures, such as a parallel port, game port or a universal serial bus (USB). A monitor 191 or other type of display device is also connected to the system bus 121 via an interface, such as a video interface 190. In addition to the monitor, computers may also include other peripheral output devices such as speakers 197 and printer 196, which may be connected through an output peripheral interface 190.

[0035] The computer 110 may operate in a networked environment using logical connections to one or more remote computers, such as a remote computer 180. The remote computer 180 may be a personal computer, a server, a router, a network PC, a peer device or other common network node, and typically includes many or all of the elements described above relative to the computer 110, although only a memory storage device 181 has been illustrated in FIG. 1. The logical connections depicted in FIG. 1 include a local area network (LAN) 171 and a wide area network (WAN) 173, but may also include other networks. Such networking environments are commonplace in offices, enterprise-wide computer networks, intranets and the Internet.

[0036] When used in a LAN networking environment, the computer 110 is connected to the LAN 171 through a network interface or adapter 170. When used in a WAN networking environment, the computer 110 typically includes a modem 172 or other means for establishing communications over the WAN 173, such as the Internet. The modem 172, which may be internal or external, may be connected to the system bus 121 via the user input interface 160, or other appropriate mechanism. In a networked environment, program modules depicted relative to the computer 110, or portions thereof, may be stored in the remote memory storage device. By way of example, and not limitation, FIG. 1 illustrates remote application programs 185 as residing on memory

device 181. It will be appreciated that the network connections shown are exemplary and other means of establishing a communications link between the computers may be used.

[0037] Referring now to FIG. 2, an embodiment of the present invention can be described in the context of an exemplary computer network system 200 as illustrated. System 200 includes electronic user devices 210, 280, such as personal computers or workstations, that are linked via a communication medium, such as a network 220 (*e.g.*, the Internet), to an electronic device or system, such as a server 230. The server 230 may further be coupled, or otherwise have access, to a database 240, electronic storage 270 and a computer system 260. Although the embodiment illustrated in FIG. 2 includes one server 230 coupled to two user devices 210, 280 via the network 220, it should be recognized that embodiments of the invention may be implemented using two or more such user devices coupled to one or more such servers.

[0038] In an embodiment, each of the user devices 210, 280 and server 230 may include all or fewer than all of the features associated with the computer 110 illustrated in and discussed with reference to FIG. 1. User devices 210, 280 include or are otherwise coupled to a computer screen or display 250, 290, respectively. User devices 210, 280 can be used for various purposes including both network- and local-computing processes.

[0039] The user devices 210, 280 are linked via the network 220 to server 230 so that computer programs, such as, for example, a browser or other applications, running on one or more of the user devices 210, 280 can cooperate in two-way communication with server 230 and one or more applications running on server 230. Server 230 may be coupled to database 240 and/or electronic storage 270 to retrieve information therefrom and to store information thereto. Additionally, the server 230 may be coupled to the computer system 260 in a manner allowing the server to delegate certain processing functions to the computer system.

[0040] Referring now to FIG. 3, illustrated is functionality of an embodiment of the invention allowing a user (not shown) who owns or otherwise controls devices 210,

280 to automatically maintain file synchronization between at least devices 210, 280, or any other user devices on which principles of the present invention are implemented. In an embodiment, an administrator (not shown) of the server 230 or other appropriate electronic device transfers a file-transfer and/or synchronization application to the user devices 210, 280 for installation thereon. Once installed on the user devices 210, 280, the file-transfer application provides file-transfer clients 310, 320 executable by the user devices 210, 280, respectively. Each of the file-transfer clients 310, 320 may, but need not, include a respective mobile-agent runtime environment 330, 340. The mobile-agent runtime environment 330, 340 include portions of memory of the user devices 210, 280 dedicated to allowing a mobile object the ability to perform operations that the mobile object is programmed to carry out. Also included in the file-transfer application are user interfaces 350, 360 that are displayable on the displays 250, 290, respectively. In an embodiment, the interfaces 350, 360 allow a user to view, access and/or organize files to be synched among the various user devices.

[0041] Generally, all files that the user desires to be synched or shared may at some point be uploaded by one or more of the user devices 210, 280 and stored in storage 270. Upon receiving the files to be synched, the server 230 can store such files in the storage 270 and/or transfer the files to one or more of the respective hard drives of the user devices 210, 280, thereby enabling each respective user device to access such files. In this manner, the server 230 is operable to treat each hard drive of the respective user devices 210, 280 as a local document cache for files received by the server. Typically, the server 230 will store one or more of the received files to the storage 270 only if the destination user device is offline or otherwise temporarily not in communication with the server 230. Upon resuming communication with the destination user device, the server 230 will transfer the temporarily stored files to the destination device.

[0042] In operation, according to an embodiment, the user may open and modify a file 370, such as a word-processing document or other electronic file. Alternatively, the

user may create a first instance of the file 370. The user may have previously have associated, or may now associate, the file 370 with the transfer client 310. Upon a predetermined and user-configurable triggering event, the transfer client 310 transfers the modified file 370, or a copy of the modified file, to the server 230. Such a triggering event may include, but be not limited to, the user saving the file, the elapsing of a predetermined amount of time during which the file has been opened, or the re-initiation of a communication session between the device 210 and the server 230.

[0043] The file 370 is transferred to the server 230 on which is executing a synchronization application 380, which may include a mobile-agent runtime environment. Through user configuration, the synch application 380 monitors a set of user devices to which the file 370 should be transferred to effect file synchronization. In the illustrated embodiment, this set of user devices includes the user device 280. The synch application 380 polls the device 280 to determine whether the device 280 is in communication with the server 230. If the device 280 is in communication with the server 230, the synch application 380 transfers the file 370 to the device 280, whereupon the transfer client 320 resident on the device 280 replaces the previous version of the file 370, previously cached on the device 280, with the latest version of the file 370 modified on the user device 210. If the device 280 is not currently in communication with the server 230, the synch application 380 may store the file 370 in the storage 270 until such time as communication between the device 280 and server 230 is reestablished. As illustrated in Figure 3, a similar reverse-direction synchronization process may be performed by the synch application 380 and the transfer clients 310, 320 with regard to a file 315 modified on device 280 and synchronized to device 210.

[0044] In an embodiment, the user interfaces 350, 360 may include a list of the customer's documents and related metadata, as well as any one-to-one or one-to-many relationships between the documents and metadata. An embodiment can always provide customers with an accurate "picture" of their document collection, regardless of whether

their devices physically contain the documents. As alluded to earlier, a problem with distributed file systems and FTP is the latency between a file being put onto a file system and it showing up on a remote machine. To prevent this problem, an embodiment directory is decoupled from the movement of files. An embodiment's directory update system updates at a higher priority than the documents to be synchronized. This feature ensures that when a customer browses or searches through his set of documents, they appear even if they have not yet been cached locally on the user device. An indicator signifying a document's availability may be prominently displayed adjacent to the document's representation so that customers are aware of the document's availability.

[0045] An embodiment may include a stand-alone application that allows customers to find and manage documents associated with transfer clients 310, 320 by visualizing relationships between documents and their metadata. It allows customers to tag documents with any number of identifiers. Customers can relate both documents and tags with each other in any number of user-specified one-to-one and one-to-many relationships, and an embodiment provides a user interface to browse and search on these relationships. To mitigate the customers' learning curve, an embodiment can implement relationships common to contemporary file systems, including a folder hierarchy. In addition to this, an embodiment provides direct support for methods that the customer uses to organize documents by manifesting them as user interface idioms. This is unlike conventional document filing systems which require the customer to work within a strict folder metaphor for organization.

[0046] Some alternate methods that an embodiment supports for organizing documents include:

[0047] • Allow customers to organize their documents by application. Many times customers remember the application used to create a document instead of the document's name or its location in a hierarchy.

[0048] • Allow customers to organize their documents by most recent access. Customers are likely to access a document they've accessed in the near past. Usually, such documents are part of a task that the customer is actively working.

[0049] • Allow customers to organize their documents by project or subproject.

[0050] • Allow customers to organize their documents by people. Many times, especially in the context of a collaboration, a document is directly related to one or more people other than the customer.

[0051] • Allow the customer to organize their document by process stage. Documents may represent one or more stages of a process. Customers need a method for organizing documents by process stage, and a mechanism for moving the document through a set of predefined stages.

[0052] • Allow customers to organize their documents by any of the aforementioned methods concurrently. These organization methods are not mutually exclusive.

[0053] An embodiment presents an interface that allows a customer to locate one or more documents associated with the transfer clients 310, 320 and open such document into a separate software application. Since this interface is intended to be used from within the separate application, that application may need to know how to invoke such interface. Advantageously, this invocation behavior can be provided to the application using the application's plug-in API.

[0054] An embodiment presents an interface that allows a customer to synchronize a currently opened document according to processes described elsewhere herein. This interface can be invoked within an application and can be made available to the application in the manner described above in connection with the application's plug-in API.

[0055] Some files associated with the transfer clients 310, 320 are dependent on other files associated with the transfer clients 310, 320. For example, a desktop

publishing document may include images that are stored in files separate from the main document. Previous file-synching solutions treat these files as separate. Because of this, for example, a document synchronized from the device 210 to the device 280 may be opened by the user of the device 280 before the image files have been fully transferred to the device 280. This causes the document to fail to open, or break, since the image files don't exist or are incomplete. An embodiment prevents this by: (1) always ensuring the file catalog (*e.g.*, the stand-alone application that allows customers to find and manage documents associated with transfer clients 310, 320, as discussed above herein) is synchronized before any file data is synchronized, and (2) pausing any file access by any program until the file contents have been fully synchronized. In such an embodiment, if a user attempts, using a software program, to open a file whose related files haven't yet finished transferring to the local (hard drive) cache, if that software attempts to open the related files, the software program is blocked by an embodiment until the requested files are downloaded and ready to access.

[0056] Other file sending and synchronizing software requires the user to upload their data to a storage device owned by the operator of the service. An embodiment treats storage as a participant in the synchronization process; this means that the user can choose the service or device where their files will be stored. The file transfer/synching is abstracted from the storage system allowing any storage to be used. An embodiment treats storage like any other synch target, such as a desktop computer, or a cell phone. As such, any device owned or otherwise controlled by the user and running a synch application, such as synch application 380, as provided in an embodiment of the invention can perform the storage and/or synching functions described elsewhere herein. That is, the user device 280 or user device 210, rather than the server 230, may perform such functions.

[0057] While a preferred embodiment of the invention has been illustrated and described, as noted above, many changes can be made without departing from the spirit

and scope of the invention. For example, as an alternative to the approach described with reference to Figure 3, wherein the transfer clients 310, 320 function to “push” modified or created files to the synch application 380, the synch application 380 may instead function to periodically “pull” or otherwise actively retrieve such files from the transfer clients 310, 320. Instead, the invention should be determined entirely by reference to the claims that follow.

WHAT IS CLAIMED IS:

1. A system comprising:
 - a first electronic device, associated with a user, configured to:
 - execute a first application at the first electronic device;
 - receive a copy of a modified first electronic file from a second application at a second electronic device associated with the user, wherein the modified first electronic file copy is automatically transferred from the second application responsive to the user modifying a content of the first electronic file; and
 - automatically cause, via the first application, an older version of the first electronic file stored on the third electronic device to be replaced with the modified first electronic file copy such that the modified first electronic file copy is stored on the third electronic device in lieu of the older version of the first electronic file.
2. The system of claim 1, wherein the first electronic device is configured to:
 - receive a copy of a modified second electronic file from a third application at a third electronic device associated with the user, wherein the modified second electronic file copy is automatically transferred from the third application responsive to the user modifying a content of the second electronic file; and
 - automatically cause, via the first application, an older version of the second electronic file stored on the second electronic device to be replaced with the modified second electronic file copy such that the modified second electronic file copy is stored on the second electronic device in lieu of the older version of the second electronic file.
3. The system of claim 2, wherein at least one of the second application or the third application comprises a runtime environment for mobile-agent objects.
4. The system of claim 2, wherein the first electronic device is configured to:
 - store, via the first application, the modified first electronic file copy to a memory device associated with the first electronic device.

5. The system of claim 4, wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device in lieu of an older version of the first electronic file copy that was stored on the memory device associated with the first electronic device.

6. The system of claim 4, wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device responsive to a determination that the first electronic device is not in communication with the third electronic device.

7. The system of claim 6, wherein the first electronic device is configured to:
responsive to resuming communication with the third electronic device, automatically transfer, via the first application, the modified first electronic file copy to the third electronic device to cause the older version of the first electronic file stored on the third electronic device to be replaced with the modified first electronic file copy.

8. The system of claim 1, wherein the second application is operable to create a first mobile object, and wherein the first mobile object is operable to create a proxy object at the first electronic device.

9. The system of claim 8, wherein the first mobile object is operable to provide the modified first electronic file copy to the proxy object.

10. The system of claim 9, wherein the proxy object is operable to store the modified first electronic file copy on a memory device associated with the first electronic device.

11. A method comprising:
 - executing a first application at a first electronic device associated with a user;
 - receiving a copy of a modified first electronic file from a second application at a second electronic device associated with the user, wherein the modified first electronic file copy is automatically transferred from the second application responsive to the user modifying a content of the first electronic file; and
 - automatically causing, via the first application, an older version of the first electronic file stored on the third electronic device to be replaced with the modified first electronic file copy such that the modified first electronic file copy is stored on the third electronic device in lieu of the older version of the first electronic file.
12. The method of claim 11, further comprising:
 - receiving a copy of a modified second electronic file from a third application at a third electronic device associated with the user, wherein the modified second electronic file copy is automatically transferred from the third application responsive to the user modifying a content of the second electronic file; and
 - automatically causing, via the first application, an older version of the second electronic file stored on the second electronic device to be replaced with the modified second electronic file copy such that the modified second electronic file copy is stored on the second electronic device in lieu of the older version of the second electronic file.
13. The method of claim 12, wherein at least one of the second application or the third application comprises a runtime environment for mobile-agent objects.
14. The method of claim 12, further comprising:
 - storing, via the first application, the modified first electronic file copy to a memory device associated with the first electronic device.

15. The method of claim 14, wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device in lieu of an older version of the first electronic file copy that was stored on the memory device associated with the first electronic device.

16. The method of claim 14, wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device responsive to a determination that the first electronic device is not in communication with the third electronic device.

17. The method of claim 16, further comprising:
responsive to resuming communication with the third electronic device, automatically transferring, via the first application, the modified first electronic file copy to the third electronic device to cause the older version of the first electronic file stored on the third electronic device to be replaced with the modified first electronic file copy.

18. The method of claim 11, wherein the second application is operable to create a first mobile object, and wherein the first mobile object is operable to create a proxy object at the first electronic device.

19. The method of claim 18, wherein the first mobile object is operable to provide the modified first electronic file copy to the proxy object.

20. The method of claim 19, wherein the proxy object is operable to store the modified first electronic file copy on a memory device associated with the first electronic device.

ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

ABSTRACT OF THE DISCLOSURE

A system includes a first application executable on a first electronic device. The system further includes a second application executable on a second electronic device in communication with the first electronic device. The second electronic device is configured to store a first electronic file. Subsequent to a user modifying the first electronic file, the second application is operable to automatically transfer the modified first electronic file, or a copy thereof, to the first electronic device. The system further includes a third application executable on a third electronic device in communication with the first electronic device. The third electronic device is configured to store a second electronic file. Subsequent to the user modifying the second electronic file, the third application is operable to automatically transfer the modified second electronic file, or a copy thereof, to the first electronic device. The first application is operable to automatically transfer the modified first electronic file or copy to the third electronic device, and automatically transfer the modified second electronic file or copy to the second electronic device.

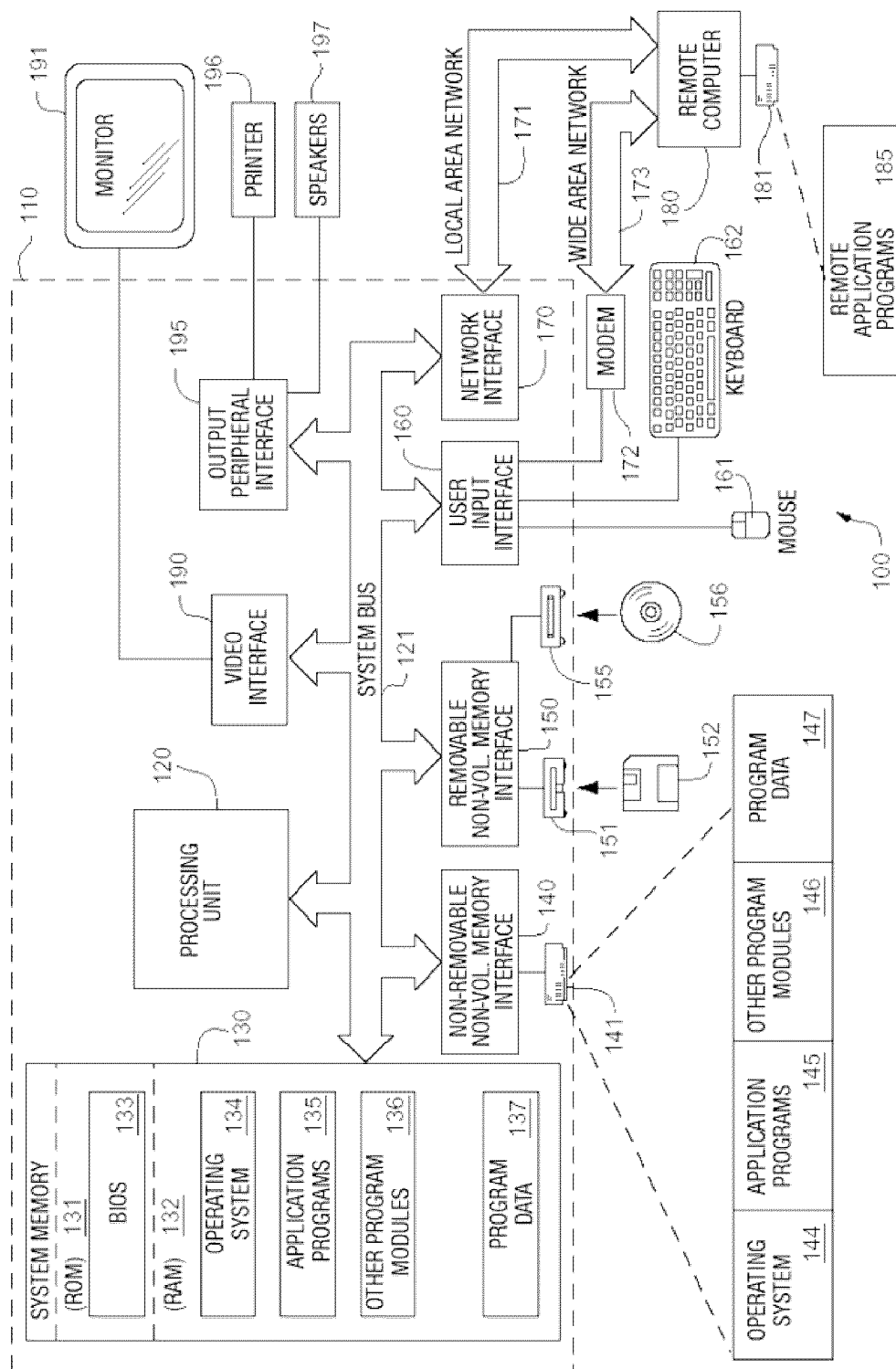


FIG. 1

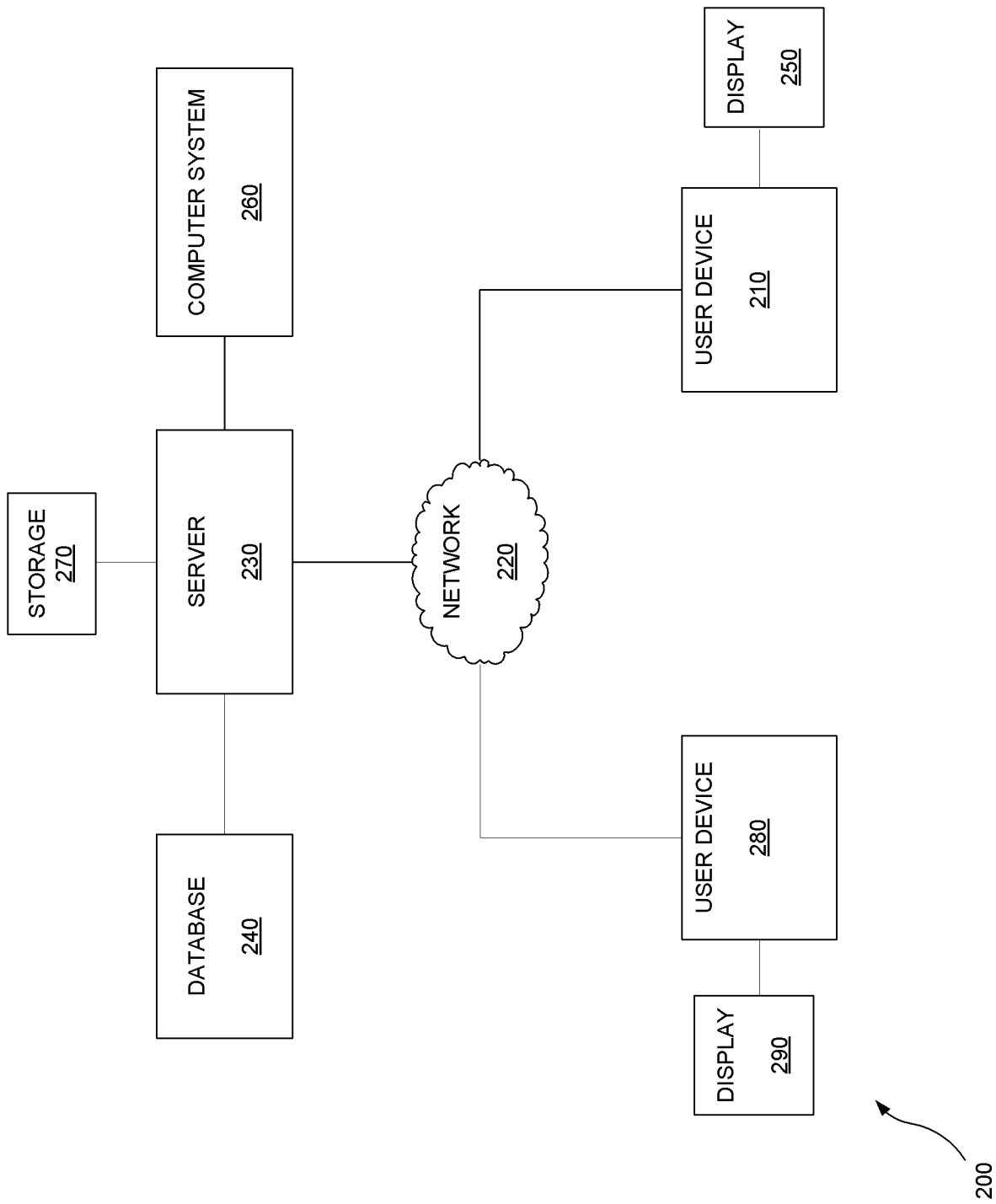


FIG. 2

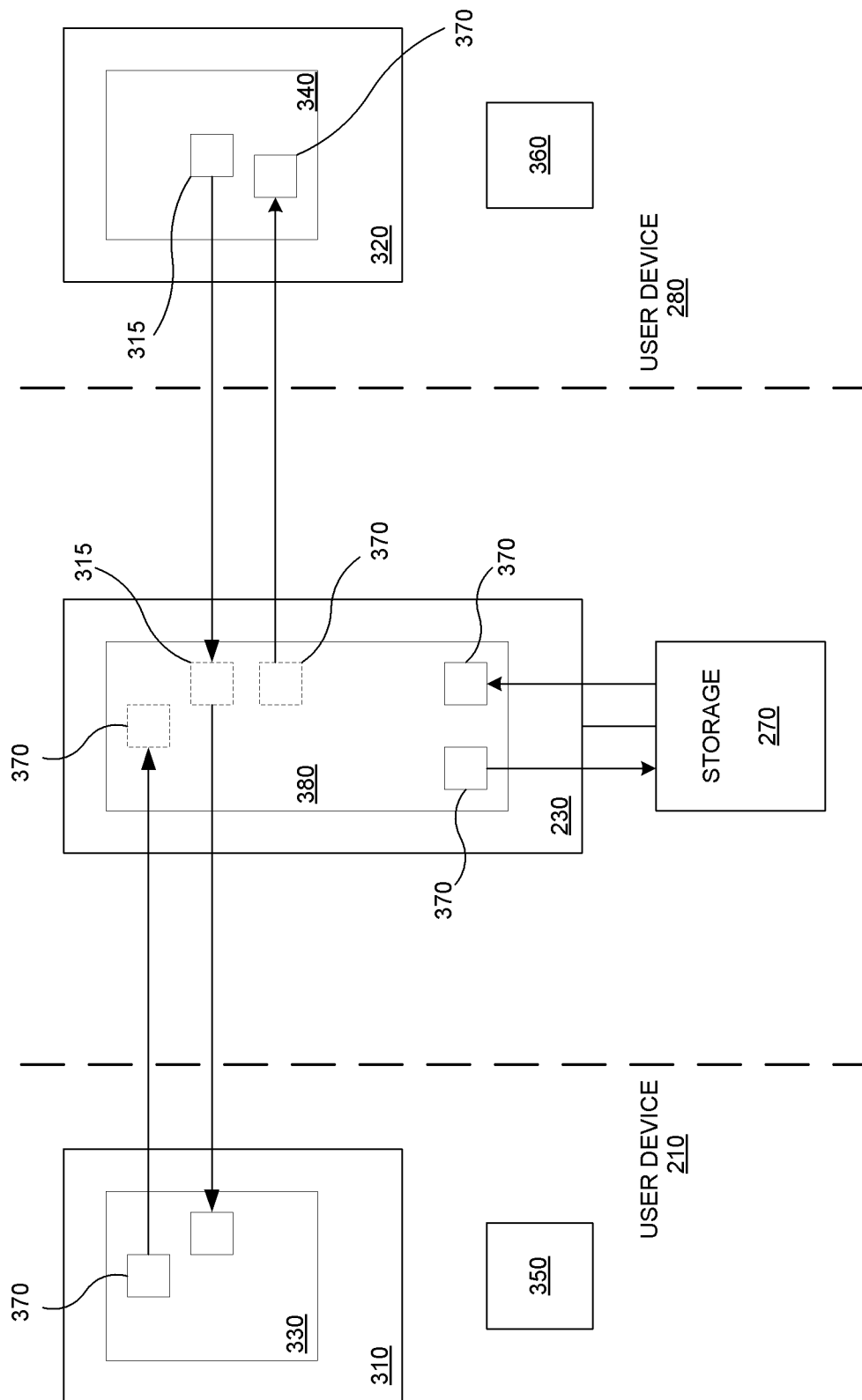


FIG. 3

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

UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>		Attorney Docket No. 023027-0443281	
		First Named Inventor Michael R. MANZANO	
		Title ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED	
		Express Mail Label No. Via EFS Web	

APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i>	Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450
<ol style="list-style-type: none"> 1. <input type="checkbox"/> Fee Transmittal Form (PTO/SB/17 or equivalent) 2. <input checked="" type="checkbox"/> Applicant asserts small entity status. See 37 CFR 1.27 3. <input type="checkbox"/> Applicant certifies micro entity status. See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent. 4. <input checked="" type="checkbox"/> Specification [Total Pages <u>23</u>] Both the claims and abstract must start on a new page. (See MPEP § 608.01(a) for information on the preferred arrangement) 5. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <u>3</u>] 6. Inventor's Oath or Declaration [Total Pages _____] (including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e)) <ol style="list-style-type: none"> a. <input type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> A copy from a prior application (37 CFR 1.63(d)) 7. <input checked="" type="checkbox"/> Application Data Sheet * See note below. See 37 CFR 1.76 (PTO/AIA/14 or equivalent) 8. CD-ROM or CD-R in duplicate, large table, or Computer Program (Appendix) <input type="checkbox"/> Landscape Table on CD 9. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a. – c. are required) <ol style="list-style-type: none"> a. <input type="checkbox"/> Computer Readable Form (CRF) b. <input type="checkbox"/> Specification Sequence Listing on: <ol style="list-style-type: none"> i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> Paper c. <input type="checkbox"/> Statements verifying identity of above copies 	ACCOMPANYING APPLICATION PAPERS <ol style="list-style-type: none"> 10. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s)) Name of Assignee <u>TOPIA TECHNOLOGY, INC.</u> 11. <input checked="" type="checkbox"/> 37 CFR 3.73(c) Statement <input checked="" type="checkbox"/> Power of Attorney (when there is an assignee) 12. <input type="checkbox"/> English Translation Document (if applicable) 13. <input checked="" type="checkbox"/> Information Disclosure Statement (PTO/SB/08 or PTO-1449) <input type="checkbox"/> Copies of citations attached 14. <input type="checkbox"/> Preliminary Amendment 15. <input type="checkbox"/> Return Receipt Postcard (MPEP § 503) (Should be specifically itemized) 16. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed) 17. <input type="checkbox"/> Nonpublication Request Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent. 18. <input type="checkbox"/> Other: _____ _____ _____ _____

***Note:** (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
 (2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS				
<input checked="" type="checkbox"/> The address associated with Customer Number: <u>00909</u> OR <input type="checkbox"/> Correspondence address below				
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Address				
City	State	Zip Code		
Country	Telephone	Email		

Signature	/Ngai B. Zhang/	Date	September 21, 2015
Name (Print/Type)	Ngai B. Zhang	Registration No. (Attorney/Agent)	65,473

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Privacy Act Statement

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

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

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

Electronic Patent Application Fee Transmittal

Application Number:				
Filing Date:				
Title of Invention:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK			
First Named Inventor/Applicant Name:	Michael R. MANZANO			
Filer:	Ngai Bing Zhang/Monet Noel			
Attorney Docket Number:	023027-0443281			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	70	70
Utility Search Fee	2111	1	300	300
Utility Examination Fee	2311	1	360	360
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				730

Electronic Acknowledgement Receipt

EFS ID:	23557682
Application Number:	14860289
International Application Number:	
Confirmation Number:	3426
Title of Invention:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	909
Filer:	Ngai Bing Zhang/Monet Noel
Filer Authorized By:	Ngai Bing Zhang
Attorney Docket Number:	023027-0443281
Receipt Date:	21-SEP-2015
Filing Date:	
Time Stamp:	17:48:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$730
RAM confirmation Number	5061
Deposit Account	033975
Authorized User	ZHANG, NGAI B.

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

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Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	0443281_ADSF.pdf	1561634	no	7
			b6c5d68709f596760d0e49acfb0ad9a84069dc5		
Warnings:					
Information:					
2	Assignee showing of ownership per 37 CFR 3.73	0443281_ASS.pdf	127858	no	3
			bd9f13f702b5ff3e437a1ccc88e014ad16234194		
Warnings:					
Information:					
3	Power of Attorney	0443281_POA.pdf	87342	no	1
			16703b833826b12a2e66db1b4725b0f8093aa3e0		
Warnings:					
Information:					
4	Assignee showing of ownership per 37 CFR 3.73	0443281_373c.pdf	2919555	no	3
			c655e4b56cfbe8586a2c57fe1ce356f4a37d2d71		
Warnings:					
Information:					
5	Transmittal Letter	0443281_IDS.pdf	507457	no	2
			af01c30e829bbfb96dde856f64e4e8e283310e58		
Warnings:					
Information:					
6	Information Disclosure Statement (IDS) Form (SB08)	0443281_1449.pdf	463306	no	1
			c0a67764bf97e3dd86a1cd4f77fd11a3b5bcd43bf		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
7		0443281_SPEC23F.pdf	529495	yes	23
			747af1543fef38662da709247fe6a975c87e2763		
	Multipart Description/PDF files in .zip description				
	Document Description	Start	End		

	Specification	1	18
	Claims	19	22
	Abstract	23	23

Warnings:

Information:

8	Drawings-only black and white line drawings	0443281_FIGS3.pdf	126518	no	3
			517e7d72465f11e28d75b3f2444c5a01553e186a		

Warnings:

Information:

9	Transmittal of New Application	0443281_TRANSF.pdf	282085	no	2
			00f7cec2fa4273e7c97e6c133144732d639f263f		

Warnings:

Information:

10	Fee Worksheet (SB06)	fee-info.pdf	35044	no	2
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Warnings:

Information:

Total Files Size (in bytes):			6640294
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	023027-0443281
		Application Number	
Title of Invention	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK		
<p>The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.</p> <p>This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.</p>			

Secrecy Order 37 CFR 5.2

<input type="checkbox"/>	Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)
--------------------------	---

Inventor Information:

Inventor 1					Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Michael	R.	MANZANO			
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service						
City	Seattle	State/Province	WA	Country of Residence i	US	
Mailing Address of Inventor:						
Address 1		5702 35th Avenue NE				
Address 2						
City	Seattle	State/Province	WA			
Postal Code	98105	Country i	US			
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.						Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).			
<input type="checkbox"/> An Address is being provided for the correspondence Information of this application.			
Customer Number	00909		
Email Address	Docket_IP@pillsburylaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK		
Attorney Docket Number	023027-0443281	Small Entity Status Claimed	<input checked="" type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	3	Suggested Figure for Publication (if any)	1

Filing By Reference :

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	023027-0443281
		Application Number	
Title of Invention	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK		

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	00909		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the application number blank.

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	12/267852	2008-11-10
Prior Application Status	Expired	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
12/267852	Claims benefit of provisional	60/986896	2007-11-09

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	023027-0443281
		Application Number	
Title of Invention	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK		

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove			
Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			Add

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

<p>This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.</p> <p><input type="checkbox"/> NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.</p>
--

Authorization to Permit Access:

<input checked="" type="checkbox"/> Authorization to Permit Access to the Instant Application by the Participating Offices
--

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	023027-0443281
		Application Number	
Title of Invention	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK		

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Applicant 1			Remove
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
Clear			
<input checked="" type="radio"/> Assignee	<input type="radio"/> Legal Representative under 35 U.S.C. 117	<input type="radio"/> Joint Inventor	
<input type="radio"/> Person to whom the inventor is obligated to assign.		<input type="radio"/> Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor : <input type="text"/>			
If the Applicant is an Organization check here. <input checked="" type="checkbox"/>			
Organization Name	Topia Technology, Inc.		
Mailing Address Information:			
Address 1	1119 Pacific Avenue, Suite 1600		
Address 2			
City	Tacoma	State/Province	WA
Country ⁱ	US	Postal Code	98402
Phone Number		Fax Number	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	023027-0443281
		Application Number	
Title of Invention	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK		
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Assignee 1				
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
				<input type="button" value="Remove"/>
If the Assignee or Non-Applicant Assignee is an Organization check here.				<input type="checkbox"/>
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Assignee including Non-Applicant Assignee:				
Address 1				
Address 2				
City		State/Province		
Country i		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.				<input type="button" value="Add"/>

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications				
Signature	/Ngai B. Zhang/		Date (YYYY-MM-DD)	2015-09-21
First Name	NGAI	Last Name	ZHANG	Registration Number
				65473
Additional Signature may be generated within this form by selecting the Add button.				<input type="button" value="Add"/>

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	023027-0443281
		Application Number	
Title of Invention	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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

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

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael R. Manzano

Attorney Docket No. TPTC-1-1026

Serial No. 12/267,852

Group Art Unit: 2876

Filing Date: November 10, 2008

Examiner: Unknown.

Title: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS
DISTRIBUTED NETWORK

ASSIGNMENT

WHEREAS, I, Michael R. Manzano, residing at 819 Virginia Avenue, #1706, Seattle, WA 98101, am the inventor named in the above-identified United States patent application;

AND, WHEREAS, Topia Technology, a Washington corporation, having a principal address at 1119 Pacific Avenue, Suite 1600, Tacoma, WA 98402 (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire right, title, and interest in and to the patent application and related inventions;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and intending to be legally bound, I hereby assign and transfer to ASSIGNEE the entire right, title, and interest in and to the patent application and related inventions, including all improvements, variations, derivations and inventive subject matter directly or indirectly related to the patent application and inventions, and all provisional or nonprovisional patent applications or issued patents that have been or may be granted thereon, including without limitation all reissues, divisions, continuations, continuations-in-part, and extensions of the patent applications or patents, or any other form of protection for the inventions related to the patent application, in the United States and foreign countries; all rights of action arising from the inventions and all applications and patents on the inventions; all claims for damages by reason of past and future infringement of the inventions and all applications and

25315
CUSTOMER NUMBER

- 1 of 3 -

TPTC-1-1026ASGN

BLACK LOWE & GRAHAM ^{PLLC}

701 Fifth Avenue, Suite 4800

Seattle, Washington 98104
Box & Dropbox Exhibit 1008
206.381.3300 • F: 206.381.3301

Page 42

patents on the inventions, and the right to sue and collect damages for such infringement; all of the foregoing assigned rights to be held and enjoyed by the ASSIGNEE for its own use and benefit and for its successors and assigns as the same would have been held by me had this assignment not been made.

I do hereby further agree and promise to execute all instruments and render all such assistance as ASSIGNEE may request in order to: make and prosecute any and all applications on the inventions, maintain and enforce any and all patents on the inventions, and confirm in ASSIGNEE legal title to the inventions and all applications and patents on the inventions in the United States and foreign countries, all without charge to ASSIGNEE but at no expense to me. In the event that ASSIGNEE is unable for any reason, after reasonable effort, to secure my signature on any document needed in connection with the actions specified in this paragraph, or to otherwise perfect in ASSIGNEE the entire right, title, and interest in and to the patent application and related inventions, I hereby irrevocably designate and appoint the ASSIGNEE and its duly authorized officers and agents as my agent and attorney-in-fact, to act for and in my behalf to execute, verify and file any such documents and to do all other lawfully permitted acts to further the purposes of this assignment with the same legal force and effect as if executed by me. I hereby waive and quitclaim to the ASSIGNEE any and all claims, of any nature whatsoever, which I now or may hereafter have for infringement of any proprietary rights assigned to the ASSIGNEE.

If any provision of this assignment is held by any court to be unenforceable, such provision shall be interpreted to accomplish the objectives of the original provision to the fullest extent allowed by law, and the remainder of this assignment shall remain in full force and effect.

EXECUTED at Tacoma (city), WA (state), on Jan 23, 2009

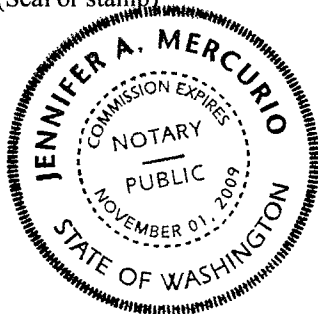
[Signature]
Michael R. Manzano

STATE OF WASHINGTON)
) ss.
COUNTY OF -)

I certify that I know or have satisfactory evidence that **Michael R. Manzano** is the person who appeared before me and signed this instrument and acknowledged such signature to be a voluntary act for the purposes mentioned in the instrument.

Dated: 1-23-09

(Seal or stamp)



[Signature]
Signature

Printed Name: Jennifer A mercurio


Notary Public

My appointment expires 11-1-09

25315
CUSTOMER NUMBER

- 3 of 3 -
TPTC-1-1026ASGN

BLACK LOWE & GRAHAM^{PLLC}


701 Fifth Avenue, Suite 4800
Seattle, Washington 98104
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206.381.3300 • F: 206.381.3301
Page 44

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:



Practitioners associated with Customer Number:

00909

OR



Practitioner(s) named below (If more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:



The address associated with Customer Number:

00909

OR

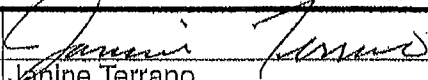
<input type="checkbox"/>	Firm or Individual Name			
	Address			
	City	State	Zip	
	Country			
	Telephone	Email		

Assignee Name and Address: **TOPIA TECHNOLOGY**
1119 Pacific Avenue, Suite 200
Tacoma, WA 98402

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/80 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The Individual whose signature and title is supplied below is authorized to act on behalf of the assignee.

Signature		Date	1/15/13
Name	Janine Terrano	Telephone	253-572-9712
Title	President, CEO		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1480, Alexandria, VA 22313-1480. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1480, Alexandria, VA 22313-1480.

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

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

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: Topia Technology, Inc.Application No./Patent No.: TBD Filed/Issue Date: Herewith (September 21, 2015)Titled: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORKTopia Technology, Inc., a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose one of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is _____. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose one of options A or B below):

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 022188, Frame 0579, or for which a copy thereof is attached.
- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Box & Dropbox Exhibit 1008

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Ngai B. Zhang/

Signature

Ngai B. Zhang

Printed or Typed Name

September 21, 2015

Date

65473

Title or Registration Number

Privacy Act Statement

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

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

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS :	Michael R. MANZANO	CONFIRMATION	TBD
		No.:	
SERIAL NUMBER :	TBD	EXAMINER:	TBD
FILING DATE :	Herewith(September 21, 2015)	ART UNIT:	TBD
FOR :	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK		

INFORMATION DISCLOSURE STATEMENT (IDS)

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

Dear Commissioner:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants hereby make of record in the above-identified application the documents listed on the attached Form PTO-1449.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This Information Disclosure Statement is being filed within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. § 1.53(d), or within three months of the date of entry of the national stage as set forth in 37

C.F.R. § 1.491 in an international application, or before the mailing date of a first Office Action on the merits, or before the mailing date of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No certification or fee is required. 37 C.F.R. § 1.97(b).

All foreign references and non-patent literature were cited by or submitted to the Office in Application No. 12/267852, filed November 10, 2008, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed

PTO-1449.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

Customer No.
00909

By Ngai B. Zhang/
 Ngai B. Zhang
 Registration No.: 65,473

P. O. Box 10500
McLean, Virginia 22102
Telephone: (703) 770-7900
Telefax: (703) 770-7901

Dated: September 21, 2015

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 10/02/2015

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		01	FC : 2051	70.00	DA	



UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
14/860,289	09/21/2015	2447	800	023027-0443281	20	2

CONFIRMATION NO. 3426

FILING RECEIPT

909

Pillsbury Winthrop Shaw Pittman, LLP (NV)
PO Box 10500
McLean, VA 22102



Date Mailed: 10/06/2015

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Michael R. MANZANO, Seattle, WA;

Applicant(s)

Topia Technology, Inc., Tacoma, WA;

Assignment For Published Patent Application

Topia Technology, Inc.

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 12/267,852 11/10/2008 PAT 9143561
which claims benefit of 60/986,896 11/09/2007

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 10/01/2015

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/860,289**

Projected Publication Date: 01/14/2016

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

Preliminary Class

709

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

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

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

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

GRANTED

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

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

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

NOT GRANTED

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

SelectUSA

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 14/860,289				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	70		N/A				
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	300		N/A				
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A				
TOTAL CLAIMS (37 CFR 1.16(j))	20	minus 20 = *	x 40 =	0.00	OR					
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2	minus 3 = *	x 210 =	0.00						
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00						
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00						
			TOTAL	730		TOTAL				
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/860,289	09/21/2015	Michael R. MANZANO	023027-0443281

CONFIRMATION NO. 3426

INFORMAL NOTICE



Date Mailed: 10/06/2015

909
Pillsbury Winthrop Shaw Pittman, LLP (NV)
PO Box 10500
McLean, VA 22102

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
Michael R. MANZANO

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/tle/



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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/860,289	09/21/2015	Michael R. MANZANO	023027-0443281

909
Pillsbury Winthrop Shaw Pittman, LLP (NV)
PO Box 10500
McLean, VA 22102

CONFIRMATION NO. 3426
IMPROPER CPOA LETTER



Date Mailed: 10/06/2015

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the power of attorney filed 09/21/2015. The power of attorney in this application is not accepted for the reason(s) listed below:

- The power of attorney has not been accepted because the party who is giving power has not been identified. Power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A party who is not the applicant must become the applicant in accordance with 37 CFR 1.46(c) and appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. For a reissue application, reexamination proceeding, or supplemental examination proceeding, a patent owner who was not the applicant under 37 CFR 1.46 must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).

/tle/

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



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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/860,289	09/21/2015	Michael R. MANZANO	023027-0443281

CONFIRMATION NO. 3426

PUBLICATION NOTICE



OC000000079920454

909
Pillsbury Winthrop Shaw Pittman, LLP (NV)
PO Box 10500
McLean, VA 22102

Title:ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

Publication No.US-2016-0012067-A1

Publication Date:01/14/2016

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

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

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

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

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

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

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

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:



Practitioners associated with Customer Number:

00909

OR

Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number

Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:



The address associated with Customer Number:

00909

OR

<input type="checkbox"/>	Firm or Individual Name			
	Address			
	City	State	Zip	
	Country			
	Telephone	Email		

Assignee Name and Address: TOPIA TECHNOLOGY, INC.
1119 Pacific Avenue, Suite 200
Tacoma, WA 98402

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature	<i>Janine Terrano</i>	Date	11/03/15
Name	Janine Terrano	Telephone	
Title	President, CEO		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: Topia Technology, IncApplication No./Patent No.: 14/860,289Filed/Issue Date: September 21, 2015Titled: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORKTOPIA TECHNOLOGY, INC., a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is ____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 036630, Frame 0308, or for which a copy thereof is attached.
- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Ngai B. Zhang/

Signature

January 21, 2016

Date

Ngai B. Zhang

Printed or Typed Name

65473

Title or Registration Number

[Page 2 of 2]

Electronic Acknowledgement Receipt

EFS ID:	24682183
Application Number:	14860289
International Application Number:	
Confirmation Number:	3426
Title of Invention:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	909
Filer:	Ngai Bing Zhang/Diane Smyth
Filer Authorized By:	Ngai Bing Zhang
Attorney Docket Number:	023027-0443281
Receipt Date:	21-JAN-2016
Filing Date:	21-SEP-2015
Time Stamp:	11:17:30
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	Transmittal.pdf	475006 3ab8ad25106a02a3b64aabe69718e44106d9ba5b	no	1

Warnings:

Information:

Box & Dropbox Exhibit 1008

2	Power of Attorney	POA.pdf	97874 deb9178f38dcb6500eaf62842166e03d05cbe1f8	no	1
Warnings:					
Information:					
3	Assignee showing of ownership per 37 CFR 3.73	373c_Statement.pdf	1373755 7a309c83ba7a3e8a84ce850cbe41b57d7ee608d1	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			1946635		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

**Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450**

Respectfully submitted,
PILLSBURY WINTHROP SHAW PITTMAN LLP

Box & Dropbox Exhibit 1008
Page 64



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/860,289	09/21/2015	Michael R. MANZANO	023027-0443281

CONFIRMATION NO. 3426

POA ACCEPTANCE LETTER

909
Pillsbury Winthrop Shaw Pittman, LLP (NV)
PO Box 10500
McLean, VA 22102



Date Mailed: 02/03/2016

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/21/2016.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/snguyen/

PLUS Search Results for S/N 14860289, Searched Thu Feb 04 13:45:33 EST 2016
 The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

5805831 99	5539825 99	5940844 99
5995944 99	5557780 99	5949043 99
5440401 99	5563998 99	
5659603 99	5577197 99	
5682481 99	5579231 99	
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5412190 99	5917965 99	
5428684 99	5924227 99	
5442545 99	5930764 99	
5532464 99	5937162 99	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION of:

Confirmation Number: 3426

Michael R. MANZANO

Application No.: 14/860,289

Group Art Unit: 2157

Filed: September 21, 2015

Examiner: Srirama T. CHANNAVAJJALA

Title: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

REPLY TO INFORMATIONAL NOTICE TO APPLICANT

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In reply to the Informational Notice to Applicant mailed October 6, 2015, Applicant herewith submits the following:

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Respectfully submitted,
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OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)**

Title of Invention	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK		
This statement is directed to:			
<input type="checkbox"/> The attached application,			
OR			
<input checked="" type="checkbox"/> United States application or PCT international application number <u>14/860,289</u> filed on <u>September 21, 2015</u> .			
LEGAL NAME of inventor to whom this substitute statement applies:			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
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Residence (except for a deceased or legally incapacitated inventor):			
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		Zip	89012
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[Page 1 of 2]

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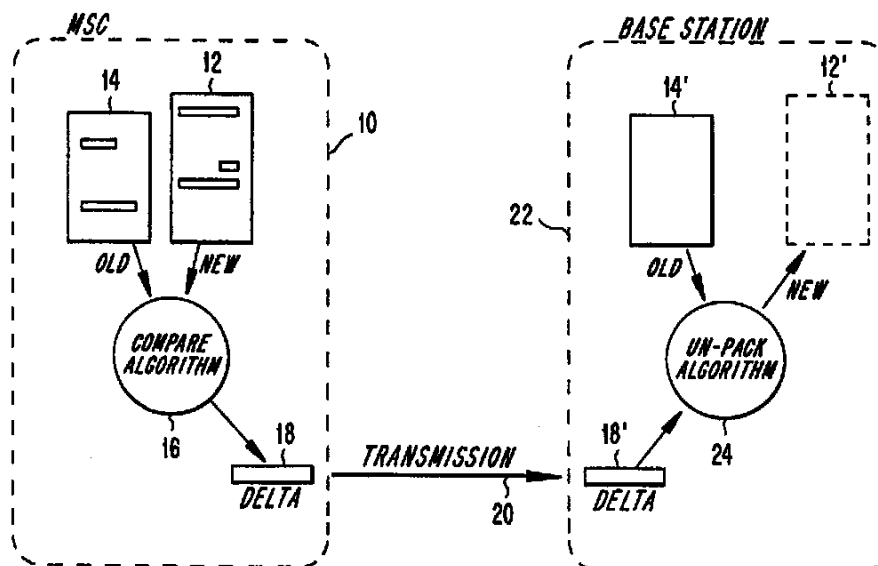
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(54) Title: DELTA FILE SOFTWARE LOADING IN CELLULAR TELECOMMUNICATIONS SYSTEMS



(57) Abstract

An improved method for software loading in a cellular telecommunication system is disclosed. The method includes generating, with a compare algorithm, a delta file (18) that includes the differences between a new software file (12) and an old software file (14) running on the device. The delta file is then transmitted to a distribution unit in a designated base station (22) where a copy of the new software file (12) is reconstructed from the delta file (18) and the old software (14). The distribution unit stores the reconstructed new software file and loads it into the designated devices when alerted by an associated mobile switching center. The method reduces the time required for software loading for the cellular system and reduces the load on the associated transmission links by transmitting a substantially smaller data file than the complete version of the new software file.

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DELTA FILE SOFTWARE LOADING IN CELLULAR TELECOMMUNICATION SYSTEMS

BY INVENTOR

Bror Erik Gunnar Genell

5

FIELD OF THE INVENTION

The present invention relates generally to software loading in cellular telecommunication systems. In particular, it pertains to a method of loading a software file by generating a substantially smaller delta file which is used to reconstruct the original software file.

10

BACKGROUND OF THE INVENTION

Software loading plays a significant role in the operation of complex electronic equipment such as cellular telecommunication systems. Within cellular systems, software loading is necessary in several instances. For example, the functionality of modern cellular systems is, to a large extent, controlled by software. One common motivation for software loading is to provide system upgrades in the form of migratory releases of predetermined software packages. Furthermore, functional changes and enhancements may be added and activated by newly installed software. By way of example, an analog network operating on the Advanced Mobile Phone System (AMPS) can be upgraded to a Digital Advanced Mobile Phone System (D-AMPS) with relatively minimal hardware modifications which are activated by new software.

Figure 1 illustrates a current method for loading software in a typical cellular network. A computer terminal 10 used for loading software is coupled to a mobile switching center (MSC) 12. Terminal 10, generally located at the same site as MSC 12, permits loading from a centralized location. MSC 12 is linked to a plurality of base

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stations by way of a high speed digital connection, such as a pulse code modulation (PCM) link. The PCM link is an optical or wired link capable of efficiently delivering digital data over vast distances in accordance with a specified standard. One widely used standard link is a T1 link 14 which specifies transmission of data at 1.544 Mb/s.

5 Furthermore, the T1 standard specifies the transmission of twenty four timeslots, where one timeslot corresponds to one analog conversation (AMPS) or three conversations in digital mode (D-AMPS). Of the twenty four timeslots, twenty three are used for carrying voice data and one, timeslot 9, is reserved for the transmission of control information. It is desirable to utilize the same transmission link for transporting both

10 voice and software data to maximize efficiency, therefore, timeslot 9 is used to carry software data during loading.

T1 link 14 couples MSC 12 to base station one (BS1) for efficient high speed communication between the components. Base stations typically contain anywhere from eight to seventy two devices wherein each can include, for example, a transmitter and

15 receiver (i.e. transceiver), Location Verification Module (LVM), Radio Frequency Test Loop (RFTL), Combiner Tuner Controller (CTC), or other microprocessor equipped units. The procedure for software loading requires that each of the devices be taken off-line or set in an idle state during loading. This is commonly referred to in the industry as "blocking" the device and must be done sequentially for each device prior to loading.

20 Since it may take anywhere from seconds to several tens of seconds to load each device, it is readily apparent that the software loading may take a significant amount of time. It should be noted the speed of loading depends greatly on the speed and capacity of the transmission line used. Furthermore, since a typical cellular network contains multiple base stations, each base station will have software loaded in its devices in a similar

25 sequential fashion. In the forgoing example, MSC 12 is coupled to BS2 via T1 link 17 and BS3 is coupled to MSC 12 via T1 link 19. A complete software load for the entire network can take anywhere from several minutes to hours or even days.

A major disadvantage of this methodology is the length of time required for loading all devices for all base stations in the network. The transfer of large amounts of

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data to a significant number of devices places a high load on transmission links which inefficiently uses system resources. Furthermore, since software loading requires that each device be taken off-line for a specified period of time, the device, while out of service, cannot serve traffic thereby depriving cellular operators of potential revenue. A method for loading software in the background without interrupting device traffic is disclosed in Genell co-pending application Serial No. _____, entitled: Background Software Loading In Cellular Telecommunication Systems filed on 5/20/97 which is incorporated herein in its entirety.

In view of the foregoing, it is an objective of the present invention to provide a technique for software loading in cellular telecommunication networks that is fast, efficient and saves system resources by reducing the load on transmission links.

SUMMARY OF THE INVENTION

Briefly described, and in accordance with multiple embodiments thereof, the invention provides a method of reducing the time necessary for software loading in a cellular telecommunication network by transmitting a much smaller data file, instead of the entire version of a new software file. In an embodiment of the present invention, a new software file is fed in its entirety into a compare algorithm located in a software dissemination center e.g. mobile switching center (MSC) or mobile station (MS). The compare algorithm compares the new software file to the corresponding old software file currently running on a designated device in a base station (BS) targeted for software loading. The compare algorithm then generates a delta file that includes the differences in data between the new software file and the old software file. The delta file further includes data reference information necessary for subsequent reconstruction of the new software file. The delta file is transmitted from the software dissemination center via a transmission medium, such as a T1 link or by wireless means, to the BS. An unpack algorithm in the BS then reconstructs the new software file from the delta file and the

old software currently running on a designated device(s) in which the new software file is subsequently loaded.

In an apparatus aspect of the present invention, a system for loading software in a cellular telecommunication system is described. The system includes a software dissemination center, a base station in communication with the dissemination center e.g. MSC or MS, a compare algorithm located in the dissemination center for comparing a new software file to an old software file and generating a delta file, and an un-pack algorithm located in the base station. The delta file includes the differences in data between the new and old software files. The compare algorithm also includes data reference information for later reconstruction. The delta file is transmitted via a transmission medium, such as a T1 link or through wireless means, from the software dissemination center to the BS. The new software file is reconstructed in the BS with an un-pack algorithm using the delta file and a corresponding old software file currently running on a designated device(s) in which the new software file is subsequently loaded.

The present invention provides a method of loading software that is fast, efficient, and transparent to the user. The method substantially reduces the load on the transmission links due to software loading. These and other advantages of the present invention will become apparent upon reading the following detailed descriptions and studying the various figures of the drawings.

20

BRIEF DESCRIPTION OF THE DRAWINGS

The invention, together with further objectives and advantages thereof, may best be understood by reference to the following description taken in conjunction with the accompanying drawings in which:

Figure 1 shows a prior art method of software loading in a cellular telecommunication system;

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Figure 2 illustrates a method of software loading in accordance with a first embodiment of the present invention; and

Figure 3 depicts a method of switching device operations to run the new software file in accordance with a second embodiment of the present invention.

5

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

In a basic cellular telecommunication system, a mobile switching center (MSC) is linked to a plurality of base stations by a series of digital transmission links. The base stations are geographically dispersed to form an area of coverage for the system. Each
10 base station (BS) is designated to cover a specified area, known as a cell, in which two way radio communication can take place between a mobile station (MS) and the BS in the associated cell. The procedure of software loading is typically initiated from the MSC to devices in the individual base stations in a sequential fashion. A description of a method for software loading in accordance with the present invention follows.

15 Figure 2 illustrates an exemplary procedure for software loading in accordance with a first embodiment of the present invention. For simplicity, the example refers to software loading for a single device in a base station. Software loading is initiated from MSC 10 which has the advantage of providing a central distribution location for loading to all the base stations in the service area of the MSC. Since software loading typically
20 involves transferring large amounts of data to replace existing software, the process imposes a high demand on the transmission links thus taking up a significant amount of system resources. In many cases the content of the new software file contains much of the same data (or redundant data) as the old software file it replaces. The present invention takes advantage of this fact by transmitting a much smaller file, which
25 excludes the redundant data, which is later reconstructed into the original new software file.

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In accordance with the procedure, a relatively large new software file 12, such as a system upgrade or new functional release package for example, is loaded into the MSC. The new file 12 is fed, and stored for use with subsequent loadings, into a compare algorithm that compares it with a copy of a corresponding old software file 14
5 that was stored from the previous software load and is currently running on the designated device targeted for software loading. A delta file 18 is then generated from the output of the compare algorithm 16. The delta file 18 contains the differences in data between the new and old files in which redundant data between the files is excluded. The delta file 18 also contains reference pointers indicating where the differences
10 occurred in the original file which are necessary to later reconstruct the new file 12. The redundant data may often include the same software code used for basic functions such as transmitting and receiving in the device, for example. Omitting the redundant data from the delta file 18 typically enables it to be significantly smaller than the complete version of the new file. For example, a typical delta file may often be around 5 percent
15 or less of the size of the entire new software file.

After delta file 18 has been generated, it is transmitted via a transmission medium such as a digital optical (or wired) link 20, e.g., a T1 link. The T1 protocol allocates timeslot 9 for control information and related data, and is also used for software loading. It should be noted that other transmission protocols may require
20 different allocations for software data, for example, the E1 link designates timeslot 16 for software loading and control information. Furthermore, other protocols may be used that designate data to be sent in multiple timeslots for faster more efficient loading. Alternatively, software loading may be carried out by wireless means through the air from a software dissemination center to a designated base station. For example, a
25 software dissemination center can be an MSC as described in the present embodiment, a mobile station (MS), or a separate unit that is configured to transmit software files. The transmission of the relatively small delta file is especially suited for wireless transmission since the transceiver time dedicated for this task will be relatively small thereby having minimal affect on system traffic.

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During software loading, the data is transmitted to a designated base station 22 until a complete delta file 18' has been received. The delta file 18' is then sent through an un-pack algorithm 24 which performs an inverse operation to that of compare algorithm 16 in the MSC. The un-pack algorithm 24 uses delta file 18' and the old software file 14' currently running on the device to reconstruct a new software file 12', which is identical to the new software file 12. The un-pack algorithm 24 reconstructs the new software file 12' by obtaining data and reference information contained in delta file 18'. The reference information indicates locations in old file 14' where data is to be added, removed, modified etc. Once the new software file 12' has been generated it is loaded into the device to run subsequent device activities. Several methods are suitable for use with the present invention for switching device operations to execute the new software on the designated device(s).

Figure 3 depicts a method of switching device operations to run the newly loaded software, in accordance with a second embodiment of the present invention. A relatively small delta file 18 (of Figure 2) is transmitted from the MSC via T1 link 20 to a designated base station. At the base station, the delta file 18 arrives at a distribution unit (DXU) 28, which contains the un-pack algorithm 24 (Figure 2). The un-pack algorithm reconstructs the new software file 12' (Figure 2) which is then stored in the distribution unit 28. A processor 30 within the distribution unit 28 sets up and directs the transfer of the new software file 12' for loading into an array of devices 32.

The distribution unit 28 has the capability to delay software loading to the devices until it is alerted by the MSC that all base stations are ready for uniform loading of all devices. Furthermore, selective software loading may be performed for particular devices which have been selected by the MSC. In this case processor 30 directs the distribution unit 28 to load the software for a specific device. This situation may occur, for example, in base stations operating in mixed mode, i.e. in AMPS/D-AMPS, wherein devices of a particular type will be upgraded accordingly with different software.

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Other methods of software loading, such as those described in the Genell co-pending application Serial No. _____ for background software loading, may be incorporated for use with the present invention. Background loading permits the software to be loaded in a manner that will not disturb devices which may be handling voice or data traffic. Therefore, the devices are never "blocked" in order to load the software as in the prior art. In this technique, a delta file 18 (Figure 2) is transmitted to the distribution unit 28 of a selected base station while any or all of the devices 32 may be active. The distribution unit 28 unpacks the received delta file 18' (Figure 2) to reconstruct the new software file 12' where it is stored until the distribution unit 28 is alerted by the MSC that the target device is idle.

The present invention discloses a technique which permits fast and efficient software loading in cellular telecommunication systems by transmitting a substantially smaller software file than the complete original version. The technique has the further advantage of reducing the demand placed on transmission links during software loading and permits background loading in a manner that eliminates the need for taking the devices off-line.

It will be appreciated by those skilled in the art that changes could be made to the embodiments described above without departing from the inventive concept thereof. In particular, inventive concept can be used for loading software files for base station components other than transceiver devices such as control radio interface cards etc., or any component requiring software loading. Furthermore, the concept may be applied to cellular systems operating in accordance with, for example, Code Division Multiple Access (CDMA), Global System for Mobile Communication (GSM), or Personal Digital Cellular (PDC). It should be understood that the invention is not limited to the particular embodiments disclosed, but it is intended to cover modifications within the spirit and scope of the invention as defined in the appended claims.

What is claimed is:

CLAIMS

1. A method of loading software in a telecommunication system comprising the steps of:
 - 5 comparing a new software file to an old software file in a software dissemination center;

generating a delta file that includes the differences in data between the new software file and the old software file;

transmitting said delta file from said software dissemination center to a
10 designated base station; and

reconstructing said new software file from the delta file and the old software file in the base station.
 2. A method as recited in claim 1 wherein said software dissemination center in said comparing step is a mobile switching center.
 - 15 3. A method as recited in claim 1 wherein said software dissemination center in said comparing step is a mobile station.
 4. A method as recited in claim 1 wherein said comparing step is performed by a compare algorithm in the software dissemination center.
 5. A method as recited in claim 1 wherein the generating step further includes the
20 step of inserting reference information in the delta file.
 6. A method as recited in claim 1 wherein said delta file is transmitted to said base station via a T1 link.
 7. A method as recited in claim 1 wherein said transmitting step is performed by wireless transmission through the air.

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8. A method as recited in claim 1 wherein said delta file is received by a distribution unit in the base station.
9. A method as recited in claim 8 wherein the reconstructed new software file is stored in the distribution unit, and wherein said distribution unit loads the new software file into designated device(s) in the base station when alerted by the MSC.
10. A method as recited in claim 1 wherein said reconstructing step is performed by an un-pack algorithm in the base station, wherein said un-pack algorithm performs an inverse operation to that of said compare algorithm.
11. A software loading system for use in a telecommunication system comprising:
- 10 a software dissemination center;
- a base station having a plurality of devices therein, said base station being in communication with the software dissemination center via a transmission medium;
- a compare algorithm located in the software dissemination center for comparing a new software file to an old software file currently running on the designated device(s) in the base station, and wherein said compare algorithm further generates a delta file; and
- 15 an un-pack algorithm located in the base station for reconstructing the new software file from the delta file and the old software file.
12. A software loading system as recited in claim 11 wherein said software dissemination center is a mobile switching center.
- 20 13. A software loading system as recited in claim 11 wherein said software dissemination center is a mobile station.
14. A software loading system as recited in claim 11 wherein said transmission medium is a T1 link.

- 12 -

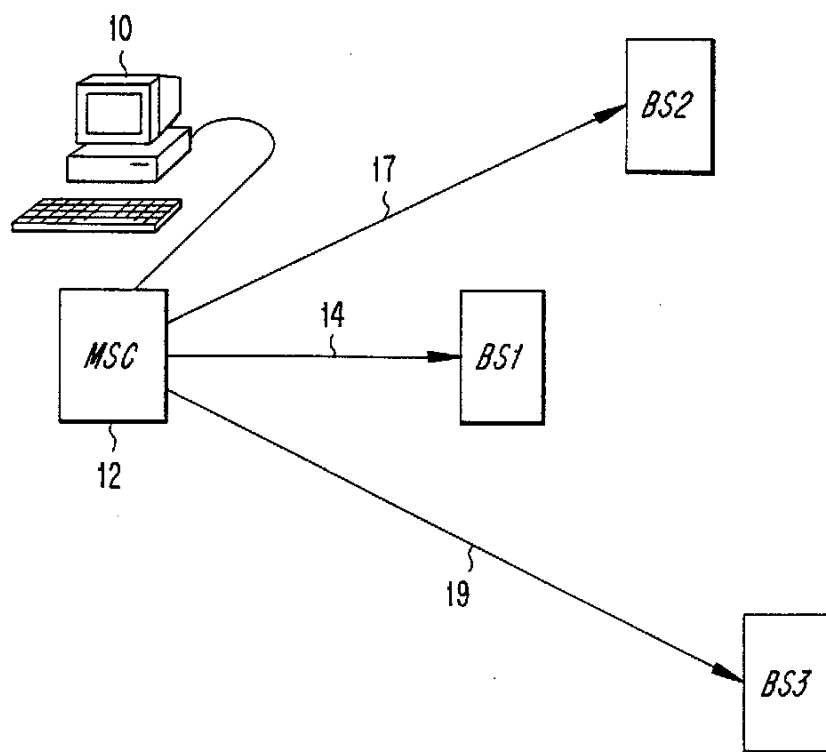
15. A software loading system as recited in claim 11 wherein said transmission medium is an E1 link.

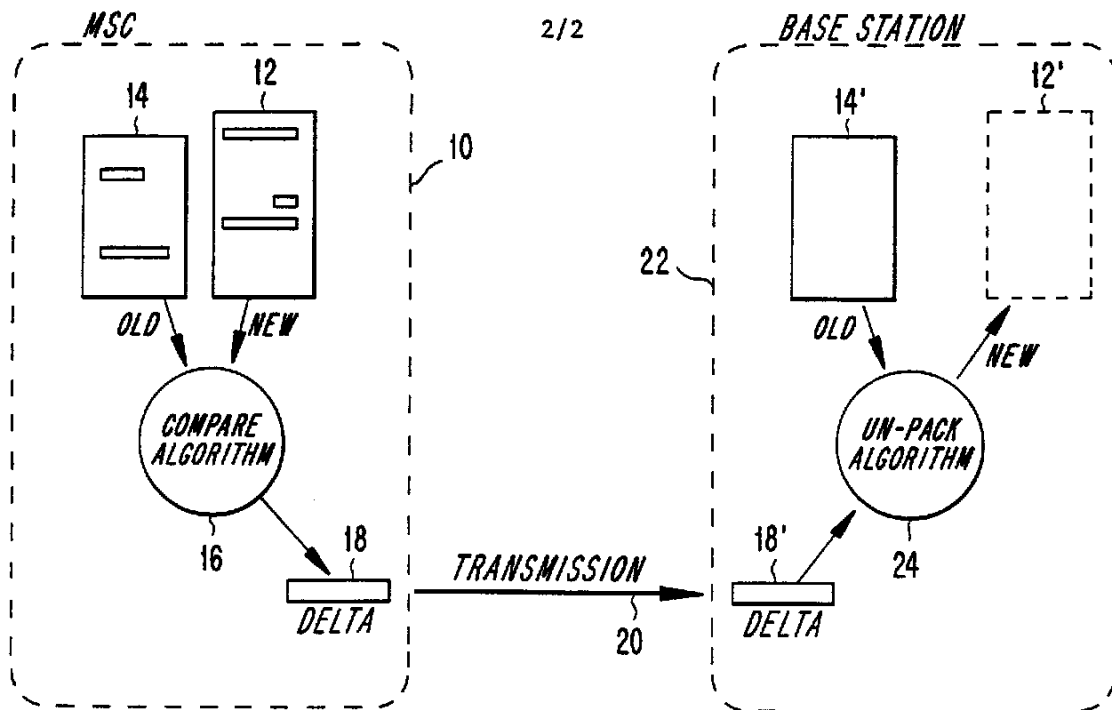
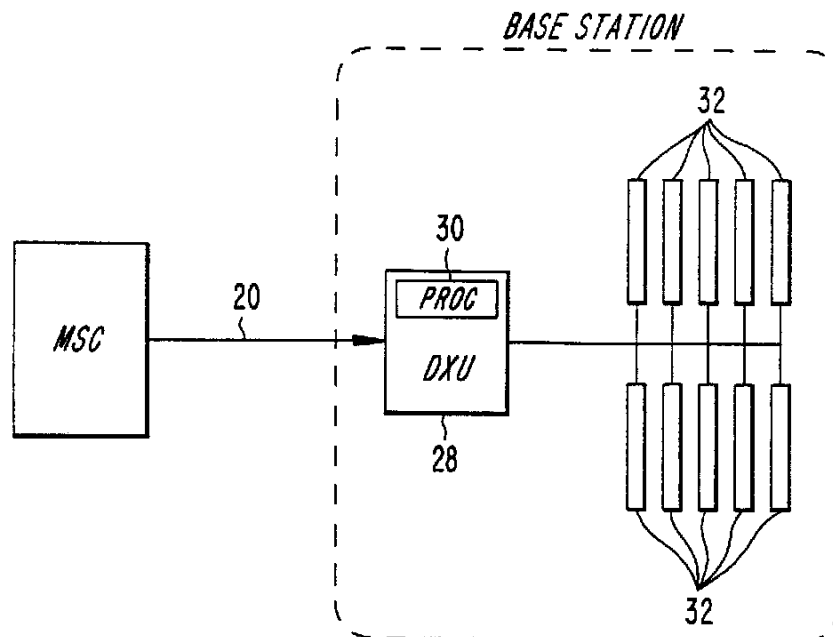
16. A software loading system as recited in claim 11 wherein said transmission medium is the air interface.

- 5 17. A software loading system as recited in claim 11 wherein said delta file is received by a distribution unit in the base station, wherein the reconstructed new software file is stored in the distribution unit and loaded into the designated devices when alerted by the MSC.

1/2

Fig. 1
(PRIOR ART)



*Fig. 2**Fig. 3*

INTERNATIONAL SEARCH REPORT

International Application No
PCT/SE 98/01073

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 665 670 A (TRAVELING SOFTWARE) 2 August 1995 see abstract ---	1-17
X	WO 95 19003 A (NORTON-LAMBERT) 13 July 1995 see abstract ---	1-17
A	EP 0 290 924 A (IBM) 17 November 1988 see abstract ---	1-17
A	US 4 847 830 A (M. MOMIROV) 11 July 1989 see abstract -----	1-17

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

Special categories of cited documents:

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"O" document referring to an oral disclosure, use, exhibition or other means

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"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search

22 July 1998

Date of mailing of the international search report

30/07/1998

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Canosa Arete, C


INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/SE 98/01073

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 665670 A	02-08-1995	US 5446888 A CA 2140124 A JP 7295867 A US 5721907 A	29-08-1995 15-07-1995 10-11-1995 24-02-1998
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Search Notes 	Application/Control No. 14/860,289	Applicant(s)/Patent Under Reexamination MANZANO, Michael R.
	Examiner Srirama T Channavajjala	Art Unit 2157

CPC - Searched*		
Symbol	Date	Examiner
G06F17/30132;30017;30067;3007;3023;2288;30091;30129;30176;30194;	12/13/2017	SC
G06F8/71	12/13/2017	SC

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Inventor searched	12/12/2017	SC
PLUS search	12/12/2017	SC
IP.COM search attached	12/12/2017	SC
EAST search attached	12/12/2017	SC

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/Srirama Channavajjala/ Primary Examiner, Art Unit 2157	
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EAST Search History (Prior Art)

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L8	1	"20060062426".PN.	US-PGPUB	OR	OFF	2017/12/13 12:17
L9	1	"20060075225".PN.	US-PGPUB	OR	OFF	2017/12/13 12:18
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L15	124	(distribut\$3 and file\$1 and version\$1 and device\$1).ab. and @py<="2007"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/13 12:27

EAST Search History (Prior Art)

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EAST Search History (Prior Art)

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EAST Search History (Prior Art)

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EAST Search History (Prior Art)

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EAST Search History (Prior Art)

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EAST Search History (Prior Art)

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EAST Search History (Prior Art)

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L39	26	38 and (version\$1 near5 id\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/13 13:24

EAST Search History (Prior Art)

L41	1	39 AND ((G06F1/1632 OR G06F13/409 OR G06F1/1626 OR H04M3/42323 OR G06F21/62 OR G06F3/0482 OR H04M11/06 OR H04M1/725 OR H04M3/42314 OR G06F1/206 OR H04N1/00127 OR H04N1/00236 OR H04N2201/0049 OR G06F1/169 OR G06F1/1656 OR H04M1/2473 OR H01H2223/052 OR G06F3/03541 OR G06F3/03549 OR H04M11/066 OR H04N1/00339 OR H04N1/00392 OR H04N1/00538 OR G06F1/1635 OR G06F3/03543 OR H04L63/10 OR G06F3/0362 OR G06Q30/0601 OR H04N2201/0081 OR H04N2201/0082 OR G06F21/73 OR G06F2221/2129 OR G06F9/445 OR H04N2201/0093 OR G06F3/03545 OR G06F1/1688 OR G06F1/1698 OR G06F2211/007 OR G06F3/0485 OR G06F12/1466 OR G06F13/385 OR G06F1/20 OR G06F21/10 OR G06F21/31 OR G06F21/445 OR G06F21/57 OR G06F21/6218 OR G06F21/79 OR G06F21/82 OR G06F2200/201 OR G06F2211/1097 OR G06F2221/0733 OR G06F2221/0737 OR G06F2221/0759 OR G06F2221/2141 OR G06F3/0213 OR G06F3/0354 OR G06F3/04886 OR G06F3/16 OR G06F8/68). CPC.) and (modify\$3 same file\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/13 13:25
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicant: Manzano, Michael R.

Appln. No.: 12/267,852

Filing Date: Herewith (September 21, 2015)

Date: September 21, 2015

Page 1 of 1

Examiner: TBD

Group Art Unit: TBD

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YY YY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR	US 7,325,038	01/2008 Wang			
	BR	US 7,260,646	08/2007 Stefanik et al.			
	CR	US 2005/0091316	04/2005 Ponce et al.			
	DR	US 2007/0180084	08/2007 Mohanty			
	ER	US 2002/0026478	02/2002 Rodgers et al.			
	FR	US 2007/0027936	02/2007 Stakutis et al.			
	GR	US 2008/0005114	01/2008 Li			
	HR	US 2004/0172424	09/2004 Edelstein et al.			
	IR	US 2013/0226871	08/2013 Sarnowski			
	JR	US 2004/0107225	06/2004 Rudoff			
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	LR	US 5,600,834	02/1997 Howard			
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	UR	US 2004/0093361	05/2004 Therrien et al.			
	VR	US 7,024,428	04/2006 Huang et al.			
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	XR	US 2007/0100913	05/2007 Sumner et al.			
	YR	US 7,224,973	05/2007 Tsutazawa et al.			
	ZR	US 7,788,303	08/2010 Mikesell et al.			

FOREIGN PATENT DOCUMENTS

		Document Number	Date MM/YYYY	Country	Inventor Name		Abstract		Readily Available	
							Enclosed	No	Enclose	No
	AAR	WO 2007047302	04/2007	PCT	Chen et al.					
	BBR	EP 1130511	09/2001	EP	Mutler					

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

CCR	U.S. Office Action dated August 13, 2014 for Appln. No. 11/739,083				
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Examiner /Srirama Channavajjala/

Date Considered: 12/13/2017

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Inventor Information for 14/860289

Inventor Name	City	State/Country
MANZANO, MICHAEL R.	SEATTLE	WASHINGTON

Appln Info	Contents	Petition Info	Atty/Agent Info	Continuity Data	Foreign Data	Inventors	Applicants	Address	Fees	Post Info	Pre Gr
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/860,289	09/21/2015	Michael R. MANZANO	023027-0443281	3426

909 7590 12/18/2017
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

EXAMINER

CHANNAVAJJALA, SRIRAMA T

ART UNIT	PAPER NUMBER
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NOTIFICATION DATE	DELIVERY MODE
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12/18/2017

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket_ip@pillsburylaw.com

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

This application is a CON of 12/267,852 filed 11/10/2008 is now US PAT 9,143,561

DETAILED ACTION

1. Claims 1-20 are pending in this application.

Information Disclosure Statement

2. The information disclosure statement filed on 9/21/2015 is in compliance with the provisions of 37 CFR 1.97, and has been considered and a copy is enclosed with the Office Action

Drawings

3. The Drawings filed on 9/21/2015 are acceptable for examination purpose

Priority

4. Applicant's claim for the benefit of a US Provisional application **60/986,896** filed 11/9/2007 under 35 U.S.C. 119(e) is acknowledged.

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

The USPTO internet Web site contains terminal disclaimer forms which may be used. Please visit <http://www.uspto.gov/forms/>. The filing date of the application will determine what form should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all

requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to

<http://www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp>.

Claims 1- 20 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-13 of U.S. Patent No. 9,143,561. Although the claims at issue are not identical, they are not patentably distinct from each other because the patented claims perform the same steps as the claims in the instant application.

Co-pending application: 14/860,289	US Patent No. 9,143,561
Claim 1,11 A system comprising: a first electronic device, associated with a user, configured to: execute a first application at the first electronic device; receive a copy of a modified first electronic file from a second application at a second electronic device associated with the user, wherein the modified	Claim 1 A system, comprising: a first electronic device configured to selectively execute a first application, the first electronic device being in communication with a second electronic device and a third electronic device, each associated with a user wherein the first electronic device is configured to: receive from a second application executable on the second electronic device a copy of a first electronic file automatically transferred from the second

<p>first electronic file copy is automatically transferred from the second application responsive to the user modifying a content of the first electronic file; and</p> <p>automatically cause, via the first application, an older version of the first electronic file stored on the third electronic device to be replaced with the modified first electronic file copy such that the modified first electronic file copy is stored on the third electronic device in lieu of the <u>older version of the first electronic file.</u></p> <p>Claim 2,12:</p> <p>wherein the first electronic device is configured to: receive a copy of a modified second electronic file from a third application at a third electronic device associated with the user, wherein the modified second electronic file copy is automatically transferred from the third</p>	<p>application when the user modifies a content of the first electronic file; and</p> <p>wherein the first electronic device is further configured to receive from a third application executable on the third electronic device a copy of a second electronic file automatically transferred from the third application when the user modifies a content of the second electronic file; and</p> <p>wherein the first application is further configured to automatically transfer the modified first electronic file copy to the third electronic device to replace <u>an older version of the first electronic file stored on the third electronic device</u> with the modified first electronic file copy having the content modified by the user; and</p> <p>automatically transfer the modified second electronic file copy to the second electronic device to replace an older version of the second electronic file stored on the second electronic device</p>
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<p>application responsive to the user modifying a content of the second electronic file; and</p> <p>automatically cause, via the first application, an older version of the second electronic file stored on the second electronic device to be replaced with the modified second electronic file copy such that the modified second electronic file copy is stored on the second electronic device in lieu of the older version of the second electronic file.</p> <p>Claim 3,13</p> <p>wherein at least one of the second application or the third application comprises a runtime environment for mobile-agent objects.</p> <p>Claim 4,14</p> <p>wherein the first electronic device is configured to:</p>	<p>with the modified second electronic file copy having the content modified by the user;</p> <p>wherein the second application automatically transfers the copy of the modified first electronic file to the first electronic device upon determining that a save operation has been performed on the modified first electronic file.</p> <p>Claim 2,9</p> <p>wherein at least one of the first and second electronic devices includes a runtime environment for mobile-agent objects.</p> <p>Claim 3,10</p> <p>wherein the first application is configured to :</p>
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<p>store, via the first application, the modified first electronic file copy to a memory device associated with the first electronic device.</p> <p>Claim 6, 16</p> <p>wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device responsive to a determination that the first electronic device is not in communication with the third electronic device.</p> <p>Claim 8, 18</p> <p>wherein the second application is operable to create a first mobile object, and wherein the first mobile object is operable to create a proxy object at the first electronic device.</p> <p>Claim 9, 19</p> <p>wherein the first mobile object is operable to provide the modified first electronic file copy to the proxy object</p>	<p>store the modified first electronic file copy to a memory device associated with the first electronic device.</p> <p>Claim 4, 11</p> <p>wherein the first application is configured to store the modified first electronic file copy to the memory device associated with the first electronic device when the third electronic device is not in communication with the first electronic device</p> <p>Claim 5, 12</p> <p>wherein the second application is operable to create a first mobile object, the first mobile object being operable to create a proxy object at the first electronic device.</p> <p>Claim 6, 13,</p> <p>wherein the first mobile object is operable to provide the copy of the</p>
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<p>Claim 10,20</p> <p>wherein the proxy object is operable to store the modified first electronic file copy on a memory device associated with the first electronic device.</p>	<p>modified first electronic file to the proxy object.</p> <p>Claim 7</p> <p>wherein the proxy object is operable to store the copy of the modified first electronic file in a storage device coupled to the first electronic device.</p>
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It would have been obvious to a person of ordinary skill was made to modify and/or to omit the additional elements of claim 1-13 of US Patent No. **9,143,561** to arrive at the claims 1-20 of the instant application **14/860,289** because the ordinary skilled person would have realized that the remaining element(s) would perform the same function as before. Omission and/or addition of elements and its function in combination is obvious expedient if the remaining elements perform same functions as before, as such instant application **14/860,289** claims are broader

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

6. Claims 1-20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Subject Matter eligibility under 35 USC 101, Step 1: Claim 1, 11 are directed to patent-eligible subject matter categories, i.e. a system, method and pass the first part of the 35 USC 101 test MPEP 2106, since the claims are directed to a process, machine, manufacture or composition of matter.

Subject Matter Eligibility under 35 USC 101, Step 2A:

Having satisfied the first step, the second step is to determine whether the claims are not wholly directed to subject matter encompassing a judicially recognized exception (e.g., law of nature, natural phenomena, or abstract idea). M.P.E.P. § 2106. In *Mayo Collaborative Servs. v. Prometheus Labs.*, 132 S. Ct. 2139 (2012) (*Mayo*), the Supreme Court set forth a two-part framework for distinguishing patents that claim laws of nature, natural phenomena, and abstract ideas from those that claim patent-eligible applications of those concepts. In the first part of the second step ("Step 2A"), a determination is made "whether the claims at issue are directed to one of those patent-ineligible concepts." *Alice Corp. Pty. Ltd. v. CLS Bank Int'l*, 134 S. Ct. 2347 (Jun. 19, 2014) (*Alice*) at 2355.

As an initial matter, examiner noted in the claims 1, 11 are directed to abstract idea, the claimed subject matter in a way that is divorced from the claim language.

The Federal Circuit cautioned against describing a claim at “a high level of abstraction ... untethered from the language of the claim” when determining the focus of the claimed invention. *Enfish, LLC v. Microsoft Corp.*, No. 2015-1244 (Fed. Cir. May 12, 2016) (Enfish) at *14.

Based upon consideration of all of the relevant factors with respect to the claim 1,11 as a whole, for example independent claim 1,11 is/are directed to:

a first electronic device, associated with a user, configured to: execute a first application at the first electronic device; receive a copy of a modified first electronic file from a second application at a second electronic device associated with the user, (similar to data components from documents into data objects – *Int. Ventures v. Cap one Financial* 2016-1077) wherein the modified first electronic file copy is automatically transferred from the second application responsive to the user modifying a content of the first electronic file; (similar to a component that maps the data components of each data object to one of the plurality of primary record types - *Int. Ventures v. Cap one Financial* 2016-1077) and

automatically cause, via the first application, an older version of the first electronic file stored on the third electronic device to be replaced with the modified first electronic file copy such that the modified first electronic file copy is stored on the third electronic device in lieu of the older version of the first electronic file (similar to a component that detects modification of the data in the dynamic document via the user interface, and in response thereto modifies a data component..... - *Int. Ventures v. Cap one Financial* 2016-1077), is directed to abstract idea of collecting, manipulating electronic file copy, Courts have held other patent claims ineligible under 35 USC 101

for reciting similar data manipulation steps for instance, in *Content Extraction and Transmission LLC v. Wells Fargo Bank, National Ass'n*, Courts held the concept of 1) collecting data 2) recognizing certain data within the collected data set, and 3) storing that recognized data in a memory” abstract. 776 F.3d 1343,1347 (Fed.Cir.2014). And in *Electric Power Group* Courts explained that an invention directed to collection, manipulation, and display of data was an abstract process. 830 F.3d at 1353-54 (Fed.Cir.2016), Hence, claims 1,11 in the instant application 14/860,289 concept related to the collection, manipulation of electronic file using electronic device is similarly abstract.

Step 2B

In applying step two of the *Alice* analysis, examiner “determine whether the claims do significantly more than simply describe [the] abstract method” and thus transform the abstract idea into patentable subject matter. *Ultramercial*, 772 F.3d at 715. It is further noted that whether there are any “additional features” in the claims 1,11 that constitute an “inventive concept”, thereby rendering the claims 1,11 eligible for patenting even if they are directed to an abstract idea. *Alice*, 134 S.Ct. at 2357. Those additional features must be more than “well-understood, routine, conventional activity”, *Mayo*, 132 S.Ct. at 1298.

Claims 1,11 at issue, examiner noted that there is no “inventive concept” that transforms the abstract idea of “receive a copy of modified electronic file is automatically transferred from the second application responsive to the user modifying a content of the first electronic file...., receiving....;manipulating electronic file into a patent-eligible application of that abstract idea. Rather, the claims 1,11 recite both a generic electronic

device and/or computer “components”, application that merely restate their individual functions – i.e, receiving, modifying, transferring. That is to say, they merely describe the functions of the abstract idea itself, without particularity, is simply not enough under step two. See *Ultramercial*, 772 F.3d at 715-16 (because they did not “do significantly more than simply describe [the] abstract method”)

In conclusion, evaluating claims 1,11 elements either individually or as an ordered combination, they recite no more than routine steps “receive a copy of a modified electronic file.....automatically transferred from the second applicationuser modifying a content of the first electronic file.....electronic file copy is stored on the third electronic device in lieu of the older version of the first electronic file” is simply data collection, organizing, manipulation of data and store using generic electronic device and/or computer components and conventional computer data processing activities. Thus, taken individually or in combination, the recited limitations of claim 1,11 neither improve the functions of the computer and/or electronic device itself, nor provide specific application (s), tailored software, or meaningful guidance for implementing the abstract concept. *Alice*, 134 S.Ct at 2359. Accordingly, they do not meaningfully limit the claims 1,11 to provide the requisite inventive concept under step two.

Examiner applies above analysis to claims 2-10,12-20 depend from claim 1,11

Claim Rejections - 35 USC § 102

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (**pre-AIPA** 35 U.S.C. 102(e)).

7. ***Claim(s) 1-20 is/are rejected under pre-AIA 35 U.S.C. 102(e,a) as being anticipated by Mohanty, US Pub. No. 2007/0180084 filed on Feb 2006, published Aug 2007.***

8. As to Claim 1,11, Mohanty teaches a system which including “A system comprising: (fig 1A)

“a first electronic device, associated with a user (fig 1A-1B, element 12), configured to: execute a first application at the first electronic device (fig 1A-1B, element 12 – first electronic device corresponds to Mohanty’s mobile device element 12)

“receive a copy of a modified first electronic file from a second application at a second electronic device associated with the user, wherein the modified first electronic

file copy is automatically transferred from the second application responsive to the user modifying a content of the first electronic file (page 3, 0029, 0030, 0032, page 4, 0034-0035, page 5, 0044, fig 1B-1C – Mohanty teaches multiple mobile devices sharing files over a communication network, particularly logical documents may be associated with the mobile device 12 is automatically transferred from the mobile device 12 to other devices along notifying the users or devices that files have been updated, further it is noted that Mohanty supports automated rules that synchronize the file changed both by mobile device(s) and order entry device, thereby maintains modified or updated content of the file;

“automatically cause, via the first application, an older version of the first electronic file stored on the third electronic device to be replaced with the modified first electronic file copy such that the modified first electronic file copy is stored on the third electronic device in lieu of the older version of the first electronic file” (page 3, 0027, page 5, 0047, page 6, 0050, 0054, fig 3, fig 5 – Mohanty teaches file management system on mobile devices maintaining version for a changes of files, particularly tracking every change ever made to each single file, further Mohanty supports files version control tracking not only change(s) of the files, while resolving conflicts of the files between mobile devices.

9. As to Claim 2,12 Mohanty teaches “wherein the first electronic device is configured to: receive a copy of a modified second electronic file from a third application at a third electronic device associated with the user” (fig 1B-1C, page 3, 0027-0028),” wherein the modified second electronic file copy is automatically transferred from the

third application responsive to the user modifying a content of the second electronic file” (page 4, 0033 – Mohanty teaches automatically files update among multiple mobile devices); and

“automatically cause, via the first application, an older version of the second electronic file stored on the second electronic device to be replaced with the modified second electronic file copy such that the modified second electronic file copy is stored on the second electronic device in lieu of the older version of the second electronic file (page 3, 0027, page 5, 0047, page 6, 0050, 0054, fig 3, fig 5 – Mohanty teaches maintaining files version control that identifies files that have been changed as detailed in fig 5).

10. As to Claim 3,13, Mohanty teaches, “wherein at least one of the second application or the third application comprises a runtime environment for mobile-agent objects” (fig 1B-1C , page 3, 0029).

11. As to Claim 4,14, Mohanty teaches, wherein the first electronic device is configured to: (fig 1A-1C)

“store, via the first application, the modified first electronic file copy to a memory device associated with the first electronic device” (page 3, 0028-0029).

12. As to Claim 5,15, Mohanty teaches, “wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device in lieu of

an older version of the first electronic file copy that was stored on the memory device associated with the first electronic device” (page 5, 0047, page 6, 0054-0055).

13. As to Claim 6, 16, Mohanty teaches, “wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device responsive to a determination that the first electronic device is not in communication with the third electronic device” (page 8, 0066 Mohanty teaches access rights associated with the files, mobile devices thereby performing specific communications among selected mobile device(s) and target device(s)).

14. As to Claim 7, 17 Mohanty teaches, wherein the first electronic device is configured to: responsive to resuming communication with the third electronic device (fig 1A-1C),

automatically transfer, via the first application, the modified first electronic file copy to the third electronic device to cause the older version of the first electronic file stored on the third electronic device to be replaced with the modified first electronic file copy (page 7, 0059, page 8, 0060).

15. As to Claim 8, 18, Mohanty teaches, “wherein the second application is operable to create a first mobile object, and wherein the first mobile object is operable to create a proxy object at the first electronic device” (page 3, 0025-0026).

16. As to Claim 9, 19 Mohanty teaches, “ wherein the first mobile object is operable to provide the modified first electronic file copy to the proxy object” (page 5, 0044-0045).

17. As to Claim 10, 20 Mohanty teaches, “ wherein the proxy object is operable to store the modified first electronic file copy on a memory device associated with the first electronic device” (page 4, 0042, 0045) .

Conclusion

The prior art made of record

a. US Pub No. 2007/0180084

Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

SEE MPEP 2141.02 [R-5] VI. PRIOR ART MUST BE CONSIDERED IN ITS ENTIRETY, INCLUDING DISCLOSURES THAT TEACH AWAY FROM THE CLAIMS: A prior art reference must be considered in its entirety, i.e., as a whole, including portions that would lead away from the claimed invention. W.L. Gore & Associates, Inc. v. Garlock, Inc., 721 F.2d 1540, 220 USPQ 303 (Fed. Cir. 1983), cert. denied, 469 U.S. 851 (1984) In re Fulton, 391 F.3d 1195, 1201,73 USPQ2d 1141, 1146 (Fed. Cir. 2004).
>See also MPEP §2123.

In the case of amending the Claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Srirama Channavajjala whose telephone number is 571-272-4108. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Trujillo James, can be reached on (571) 272- 3677. The fax phone numbers for the organization where the application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Srirama Channavajjala/
Primary Examiner, Art Unit 2157



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CONFIRMATION NO. 3426

SERIAL NUMBER 14/860,289	FILING or 371(c) DATE 09/21/2015 RULE	CLASS 707	GROUP ART UNIT 2157	ATTORNEY DOCKET NO. 023027-0443281	
APPLICANTS Topia Technology, Inc., Tacoma, WA; INVENTORS Michael R. MANZANO, Seattle, WA; ** CONTINUING DATA ***** This application is a CON of 12/267,852 11/10/2008 PAT 9143561 which claims benefit of 60/986,896 11/09/2007 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 10/01/2015					
Foreign Priority claimed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 35 USC 119(a-d) conditions met <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Verified and /SRIRAMA T CHANNAVAJJALA/ Acknowledged Examiner's Signature	<input type="checkbox"/> Met after Allowance Initials	STATE OR COUNTRY WA	SHEETS DRAWINGS 3	TOTAL CLAIMS 20	INDEPENDENT CLAIMS 2
ADDRESS Pillsbury Winthrop Shaw Pittman, LLP PO Box 10500 McLean, VA 22102 UNITED STATES					
TITLE ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK					
FILING FEE RECEIVED 800	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit		

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1 - 50		5,280,766 results							

1. Applications for remote differential compression

Remote differential compression is integrated within applications. Objects are updated between two or more computing devices using remote differential compression (RDC) techniques such that required data transfers are minimized. An algorithm provides enhanced efficiencies for allowing the receiver...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20060184652 | US APPLICATIONS | 17-AUG-2006

2. Device-to-device software distribution

A method and corresponding equipment by which software (11c) on a first device (11) is virally or otherwise distributed to a second device (12), in which the first device (11) and second device (12) and possibly also a server (16) of the software (11c) exchange information sufficient for the first...

CURRENT ASSIGNEES: NOKIA CORP [+1]
WO2006021835A1 | WIPO APPLICATIONS | 02-MAR-2006

3. Device-to-device software distribution

A method and corresponding equipment by which software (11c) on a first device (11) is virally or otherwise distributed to a second device (12), in which the first device (11) and second device (12) and possibly also a server (16) of the software (11c) exchange information sufficient for the first...

CURRENT ASSIGNEES: NOKIA CORP
EP1787198A1 | EUROPEAN APPLICATIONS | 23-MAY-2007

4. Device-to-device software distribution

A method and corresponding equipment by which software (11c) on a first device (11) is virally or otherwise distributed to a second device (12), in which the first device (11) and second device (12) and possibly also a server (16) of the software (11c) exchange information sufficient for the first...

CURRENT ASSIGNEES: NOKIA CORP
US20060048141 | US APPLICATIONS | 02-MAR-2006

5. Updating electronic files using byte-level file differencing and updating algorithms

A system and method for updating electronic files and file components are provided. An upgrade client of a remote device receives a delta file block that codes differences between an original and a new version of a file. The upgrade client stores the delta file block in a first memory area. The...

CURRENT ASSIGNEES: QUALCOMM INC
US7096311 | US PATENTS | 22-AUG-2006

6. Updating electronic files using byte-level file differencing and updating algorithms

A system and method for updating electronic files and file components are provided. An upgrade client of a remote device receives a delta file block that codes differences between an original and a new version of a file. The upgrade client stores the delta file block in a first memory area. The...

CURRENT ASSIGNEES: QUALCOMM INC
US20060206537 | US APPLICATIONS | 14-SEP-2006

7. Updating electronic files using byte-level file differencing and updating algorithms

A system and method for updating electronic files and file components are provided. An upgrade client of a remote device receives a delta file block that codes differences between an original and a new version of a file. The upgrade client stores the delta file block in a first memory area. The...

CURRENT ASSIGNEES: QUALCOMM INC
US20040062130 | US APPLICATIONS | 01-APR-2004

8. Installing software on a mobile computing device using the rollback and security features of a configuration manager

Installing software using the configuration manager so that the rollback and security features of the configuration manager may be used during the installation process. A mobile computing device accesses files that are to be installed on the mobile computing device, and well as computer-executable...

CURRENT ASSIGNEES: MICROSOFT CORP
TW200301049A | TAIWANESE APPLICATIONS | 16-JUN-2003

9. Wireless system and method for managing logical documents

A system and method is provided for managing logical documents using a wireless mobile device. The wireless mobile device, which may be a wireless handset, connects to the management system through a wireless communication network such as a public telecommunications provider network. The network has...

1 Filter

STIC

CURRENT ASSIGNEES: TOR ANUMANA INC
US20070180084 | US APPLICATIONS | 02-AUG-2007

10. **Installing software on a mobile computing device using the rollback and security features of a configuration manager**

Installing software using the configuration manager so that the rollback and security features of the configuration manager may be used during the installation process. A mobile computing device accesses files that are to be installed on the mobile computing device, and well as computer-executable...

CURRENT ASSIGNEES: MICROSOFT CORP
TWI258945B | TAIWANESE PATENTS | 21-JUL-2006

11. **Wireless system and method for managing logical documents**

A system and method is provided for managing logical documents using a wireless mobile device. The wireless mobile device, which may be a wireless handset, connects to the management system through a wireless communication network such as a public telecommunications provider network. The network has...

CURRENT ASSIGNEES: ANUMANA
WO2007090182A2 | WIPO APPLICATIONS | 09-AUG-2007

12. **Device memory management during electronic file updating**

In performing memory management, an upgrade client of a host device identifies and reserves memory blocks large enough to accommodate new software components by performing sequential searches of first and second memory areas. The new software components are updated versions of components of original...

CURRENT ASSIGNEES: QUALCOMM INC
US7007049 | US PATENTS | 28-FEB-2006

13. **Method for managing multiple file states for replicated files**

To the server the invention claims modified file of the opening active when the user to execute modification is opened the initial file is opened so that it is not locked by the file. When the user represents a direct ground or hidden in the user tries to an enterprise or open the file when the file...

CURRENT ASSIGNEES: MICROSOFT CORP
CN1525328A | CHINESE APPLICATIONS | 01-SEP-2004

14. **The method, the software product, the memory, and the signal for the distribution of software applications between mobile devices and mobile**

CURRENT ASSIGNEES: DIGITA OY
FI115799B | FINNISH PATENTS | 15-JUL-2005

15. **Device memory management during electronic file updating**

In performing memory management, an upgrade client of a host device identifies and reserves memory blocks large enough to accommodate new software components by performing sequential searches of first and second memory areas. The new software components are updated versions of components of original...

CURRENT ASSIGNEES: QUALCOMM INC
US20040098427 | US APPLICATIONS | 20-MAY-2004

16. **The device memory management in the electronic file being updated**

When performing memory management upgrade client of the host device (130), by performing a sequential search of the second memory area and the first memory large enough to accommodate the new software component Book identifies the block. New software component is a updated version of the components...

CURRENT ASSIGNEES: イノバス・ソフトウェア・インコーポレーテッド
JP2006506747A | JAPANESE APPLICATIONS | 23-FEB-2006

17. **Device memory management during electronic file updating**

In performing memory management, an upgrade client of a host device identifies and reserves memory blocks large enough to accommodate new software components by performing sequential searches of first and second memory areas. The new software components are updated versions of components of original...

CURRENT ASSIGNEES: QUALCOMM INC
US20050257023 | US APPLICATIONS | 17-NOV-2005

18. **Device memory management during electronic file updating**

In performing memory management, an upgrade client (130) of a host device identifies and reserves memory blocks large enough to accommodate new software components by performing sequential searches of first and second memory areas. The new software components are updated versions of components of...

CURRENT ASSIGNEES: INNOPATH SOFTWARE INC
EP1570340A1 | EUROPEAN APPLICATIONS | 07-SEP-2005

19. **Device memory management during electronic file updating**
 In performing memory management, an upgrade client (130) of a host device identifies and reserves memory blocks large enough to accommodate new software components by performing sequential searches of first and second memory areas. The new software components are updated versions of components of...
- CURRENT ASSIGNEES:** DOONGO TECH INC
 WO2004046910A1 | WIPO APPLICATIONS | 03-JUN-2004

20. **Upgrade of the electronic file, including automatic restoration from the error or failure that occurred during the upgrade**
 To provide a mobile communication device on which you want to receive the upgrade file through wireless coupling portion of at least one. The contents of the upgrade file contains information to upgrade the functions of the mobile communication device and / or information for repairing errors in the...
- CURRENT ASSIGNEES:** イノバ・ソフトウェア・インコーポレーテッド
 JP2006508432A | JAPANESE APPLICATIONS | 09-MAR-2006

21. **Method, apparatus, and program for quick save to remote storage**
 The present invention provides a remote save mechanism that allows a user to transfer a document or file or a portion thereof to a predetermined directory or folder from the interface of an application. The contents of the document or file may be stored in a file format that is consistent with the...
- CURRENT ASSIGNEES:** INTL BUSINESS MACHINES CORP
 US20030115226 | US APPLICATIONS | 19-JUN-2003

22. **Installing software on a mobile computing device using the rollback and security features of a configuration manager**
 Installing software using the configuration manager so that the rollback and security features of the configuration manager may be used during the installation process. A mobile computing device accesses files that are to be installed on the mobile computing device, and well as computer-executable...
- CURRENT ASSIGNEES:** MICROSOFT CORP
 EP1318452A1 | EUROPEAN APPLICATIONS | 11-JUN-2003

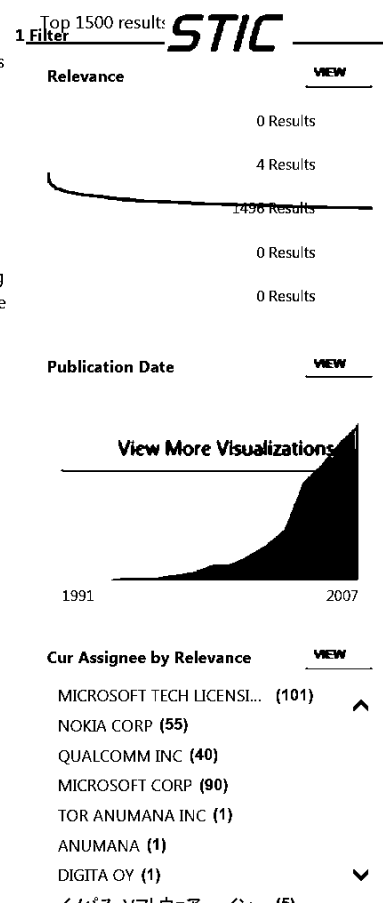
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 Installing software using the configuration manager so that the rollback and security features of the configuration manager may be used during the installation process. A mobile computing device accesses files that are to be installed on the mobile computing device, and well as computer-executable...
- CURRENT ASSIGNEES:** MICROSOFT TECH LICENSING LLC
 US20030121033 | US APPLICATIONS | 26-JUN-2003

24. **Installing software on a mobile computing device using the rollback and security features of a configuration manager**
 Installing software using the configuration manager so that the rollback and security features of the configuration manager may be used during the installation process. A mobile computing device accesses files that are to be installed on the mobile computing device, and well as computer-executable...
- CURRENT ASSIGNEES:** MICROSOFT TECH LICENSING LLC
 US7017155 | US PATENTS | 21-MAR-2006

25. **Installing software on a mobile computing device using the rollback and security features of a configuration manager**
 Installing software using the configuration manager so that the rollback and security features of the configuration manager may be used during the installation process. A mobile computing device accesses files that are to be installed on the mobile computing device, and well as computer-executable...
- CURRENT ASSIGNEES:** MICROSOFT TECH LICENSING LLC
 US6993760 | US PATENTS | 31-JAN-2006

26. **Installing software on a mobile computing device using the rollback and security features of a configuration manager**
 Installing software using the configuration manager so that the rollback and security features of the configuration manager may be used during the installation process. A mobile computing device accesses files that are to be installed on the mobile computing device, and well as computer-executable...
- CURRENT ASSIGNEES:** MICROSOFT TECH LICENSING LLC
 US20050132358 | US APPLICATIONS | 16-JUN-2005

27. **File differencing and updating engines**
 A file differencing and updating system is provided that includes a file differencing component and a file updating component. The file differencing component, or file differencing engine, generates a difference file in a first processor-based or computer system from an original or old version and a...



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De-dup: None

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- 1. System and method relating to remotely accessible securely stored data files**

In a first broad form the present invention provides a method of and system for granting access to one of a plurality of versions of a data file, wherein a Uniform Resource Identifier (URI) is associated with said data file and said URI is associated with an access list which includes details of one...

CURRENT ASSIGNEES: ORIGINAL SPIN INTL PTY LTD
WO2004044756A1 | WIPO APPLICATIONS | 27-MAY-2004
- 2. Efficient generator of update packages for mobile devices**

An efficient generator of update packages employs a new command SET PTR CACHE to take advantage of a rudimentary caching mechanism that allows exploiting of local patterns in pointer replacements.

CURRENT ASSIGNEES: QUALCOMM INC
US20060107260 | US APPLICATIONS | 18-MAY-2006
- 3. Wireless system and method for managing logical documents**

A system and method is provided for managing logical documents using a wireless mobile device. The wireless mobile device, which may be a wireless handset, connects to the management system through a wireless communication network such as a public telecommunications provider network. The network has...

CURRENT ASSIGNEES: TOR ANUMANA INC
US20070180084 | US APPLICATIONS | 02-AUG-2007
- 4. Wireless system and method for managing logical documents**

A system and method is provided for managing logical documents using a wireless mobile device. The wireless mobile device, which may be a wireless handset, connects to the management system through a wireless communication network such as a public telecommunications provider network. The network has...

CURRENT ASSIGNEES: ANUMANA
WO2007090182A2 | WIPO APPLICATIONS | 09-AUG-2007
- 5. Apparatus and methods for managing caches on a mobile device**

An exemplary method for managing a cache on a mobile device comprises the steps of receiving a call for loading a set of files, the set of files including an application or data, searching a database in a database for a matching record to the set of files, determining if the set of files is...

CURRENT ASSIGNEES: QUALCOMM INC
US6954754 | US PATENTS | 11-OCT-2005
- 6. Apparatus and methods for managing caches on a mobile device**

An exemplary method for managing a cache on a mobile device comprises the steps of receiving a call for loading a set of files, the set of files including an application or data, searching a database in a database for a matching record to the set of files, determining if the set of files is...

CURRENT ASSIGNEES: QUALCOMM INC
US20020152229 | US APPLICATIONS | 17-OCT-2002
- 7. Method for automatically removing metadata information from audio data files**

ID3v2-tags of MP3 files can contain much more data than ID3 tags of previous versions. This information can comprise data that small mobile devices cannot or need not make use of, e.g. high-resolution picture data. During transfer of an MP3 file from a PC to a mobile device, the devices may...

CURRENT ASSIGNEES: DEUTSCHE THOMSON BRANDT GMBH
EP1732328A1 | EUROPEAN APPLICATIONS | 13-DEC-2006
- 8. Updating electronic files using byte-level file differencing and updating algorithms**

A system and method for updating electronic files and file components are provided. An upgrade client of a remote device receives a delta file block that codes differences between an original and a new version of a file. The upgrade client stores the delta file block in a first memory area. The...

CURRENT ASSIGNEES: QUALCOMM INC
US7096311 | US PATENTS | 22-AUG-2006
- 9. The method, the software product, the memory, and the signal for the distribution of software applications between mobile devices and mobile**

CURRENT ASSIGNEES: DIGITA OY
FI1157998 | FINNISH PATENTS | 15-JUL-2005

STIC**10. File differencing and updating engines**

A file differencing and updating system is provided that includes a file differencing component and a file updating component. The file differencing component, or file differencing engine, generates a difference file in a first processor-based or computer system from an original or old version and a...

CURRENT ASSIGNEES: INNOPATH SOFTWARE INC
US20050010576 | US APPLICATIONS | 13-JAN-2005

1 Filter**11. Updating electronic files using byte-level file differencing and updating algorithms**

A system and method for updating electronic files and file components are provided. An upgrade client of a remote device receives a delta file block that codes differences between an original and a new version of a file. The upgrade client stores the delta file block in a first memory area. The...

CURRENT ASSIGNEES: QUALCOMM INC
US20040062130 | US APPLICATIONS | 01-APR-2004

12. Updating electronic files using byte-level file differencing and updating algorithms

A system and method for updating electronic files and file components are provided. An upgrade client of a remote device receives a delta file block that codes differences between an original and a new version of a file. The upgrade client stores the delta file block in a first memory area. The...

CURRENT ASSIGNEES: QUALCOMM INC
US20060206537 | US APPLICATIONS | 14-SEP-2006

13. System and methods for mobile content generation

The present invention relates to mobile communications and, in particular provides a system that allows for the creation of content for such uses as full-track audio, ringtones, images, video, and combined video and audio for mobile phones, and systems for deploying such content. Content generation...

CURRENT ASSIGNEES: MVISIBLE TECH INC
WO2007084371A2 | WIPO APPLICATIONS | 26-JUL-2007

14. Processing software for use in generating difference files

Systems and methods are provided for, for example byte-level file differencing. Software/executable changes between file versions include primary changes/logical changes, which are defined to be the source code changes, and secondary changes. The secondary changes generally result from the primary...

CURRENT ASSIGNEES: INNOPATH SOFTWARE INC
KR20060026880A | KOREAN APPLICATIONS | 24-MAR-2006

15. Optimizing file replication using binary comparisons

Client and server based copies of a file are maintained in synchronicity as changes are made to the file. Data is compared to a previous version known to both the client and server and a highly compressed representation of the differences between the two is generated. These differences, or "diffs",...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
EP1533716A1 | EUROPEAN APPLICATIONS | 25-MAY-2005

16. Installation of software on removable media

In order to the computing device is installed on the decision software step section is used for determining whether or not the software installation strategy of stage surface is used for installing software installation of the stage. Decision step needed by the information to unit format of data...

CURRENT ASSIGNEES: SYMBIAN SOFTWARE LTD
CN1950798A | CHINESE APPLICATIONS | 18-APR-2007

17. Method, apparatus, and program for quick save to remote storage

The present invention provides a remote save mechanism that allows a user to transfer a document or file or a portion thereof to a predetermined directory or folder from the interface of an application. The contents of the document or file may be stored in a file format that is consistent with the...

CURRENT ASSIGNEES: INTEL BUSINESS MACHINES CORP
US20030115226 | US APPLICATIONS | 19-JUN-2003

18. Upgrading of electronic files including automatic recovery from failures and errors occurring during the upgrade

The invention claims a portable communication device and it is composed of at least one wireless coupled to receive the upgrading file. The upgrading file content comprises used for repairing portable communication device software component the error in the information and / or to update the...

CURRENT ASSIGNEES: DOONGO TECH INC
CN1711747A | CHINESE APPLICATIONS | 21-DEC-2005

19. Device memory management during electronic file updating

In performing memory management, an upgrade client (130) of a host device identifies and reserves memory blocks large enough to accommodate new software components by performing sequential searches of first and second memory areas. The new software components are updated versions of components of...

CURRENT ASSIGNEES: INNOPATH SOFTWARE INC
EP1570340A1 | EUROPEAN APPLICATIONS | 07-SEP-2005

20. System and method of generating applications for mobile devices

A method and system of generating target applications from Java reference applications for a particular combination of mobile devices is provided. The method includes the steps of: a) unpacking the reference application into a number of class files; and b) transforming the reference application into...

CURRENT ASSIGNEES: TIRA WIRELESS INC
CA2468361A1 | CANADIAN APPLICATIONS | 17-MAY-2005

21. Device memory management during electronic file updating

In performing memory management, an upgrade client of a host device identifies and reserves memory blocks large enough to accommodate new software components by performing sequential searches of first and second memory areas. The new software components are updated versions of components of original...

CURRENT ASSIGNEES: QUALCOMM INC
US7007049 | US PATENTS | 28-FEB-2006

22. System and method of generating applications for mobile devices

A method and system of generating target applications from Java reference applications for a particular combination of mobile devices is provided. The method includes the steps of: a) unpacking the reference application into a number of class files; and b) transforming the reference application into...

CURRENT ASSIGNEES: TIRA WIRELESS INC
EP1687715A1 | EUROPEAN APPLICATIONS | 09-AUG-2006

23. Device memory management during electronic file updating

In performing memory management, an upgrade client (130) of a host device identifies and reserves memory blocks large enough to accommodate new software components by performing sequential searches of first and second memory areas. The new software components are updated versions of components of...

CURRENT ASSIGNEES: DOONGO TECH INC
WO2004046910A1 | WIPO APPLICATIONS | 03-JUN-2004

24. Device memory management during electronic file updating

In performing memory management, an upgrade client of a host device identifies and reserves memory blocks large enough to accommodate new software components by performing sequential searches of first and second memory areas. The new software components are updated versions of components of original...

CURRENT ASSIGNEES: QUALCOMM INC
US20040098427 | US APPLICATIONS | 20-MAY-2004

25. Device memory management during electronic file updating

In performing memory management, an upgrade client of a host device identifies and reserves memory blocks large enough to accommodate new software components by performing sequential searches of first and second memory areas. The new software components are updated versions of components of original...

CURRENT ASSIGNEES: QUALCOMM INC
US20050257023 | US APPLICATIONS | 17-NOV-2005

26. System and method for ringtone generation

The present invention relates to mobile communications and, in particular provides a system that allows for the creation of content for such uses as ringtones for mobile phones, and systems for deploying such content, i.e., segmenting and transferring media files to a mobile communication device.

CURRENT ASSIGNEES: MYXER INC
WO2007005886A2 | WIPO APPLICATIONS | 11-JAN-2007

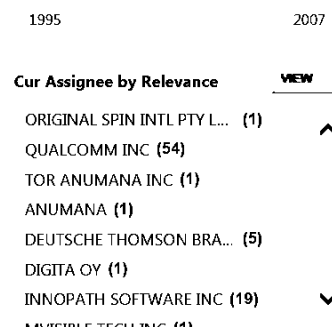
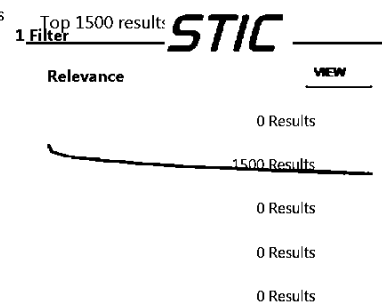
27. Systems and methods for managing, creating, modifying, and distributing media content

Disclosed is a system (100) for managing, creating, modifying, and distributing media content. The system (100) permits a user to customize and distribute the media content over a network (120) from a first network device (105), such as a personal computer, to a second network device (110), such as...

CURRENT ASSIGNEES: XINGTON INC [+5]
EP1763729A2 | EUROPEAN APPLICATIONS | 21-MAR-2007

28. System and method of generating applications for mobile devices

A method and system of generating target applications from Java reference applications for a particular combination of mobile devices is provided. The method includes the steps of: a) unpacking the reference application into a number of class files; and b) transforming the reference application into...



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Cut-off: None

De-dup: None

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1. **Request transmitting method and its network**
CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
JPH0926879A | JAPANESE APPLICATIONS | 28-JAN-1997
2. **Universal object request broker encapsulater**
 A mechanism for passing a request from a calling object in a first address space to a target object in a second address space. First, the request is passed from the calling object to an object request broker (more general term?) to which the calling object is written which normally handles requests...
CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US6182154 | US PATENTS | 30-JAN-2001
3. **Electronic file sharing**
 A system includes a server and a source client executable on a first electronic device in communication with the server. The source client is operable to send a file to the server. The system further includes a recipient client executable on a second electronic device in communication with the...
CURRENT ASSIGNEES: TOPIA TECH INC
WO2007124505A2 | WIPO APPLICATIONS | 01-NOV-2007
4. **Electronic file sharing**
 A system includes a server and a source client executable on a first electronic device in communication with the server. The source client is operable to send a file to the server. The system further includes a recipient client executable on a second electronic device in communication with the...
CURRENT ASSIGNEES: TOPIA TECH INC
US20070250507 | US APPLICATIONS | 25-OCT-2007
5. **System and method for implementing proxy objects in a visual application builder framework**
 An object model-based visual builder is provided which includes proxy objects at build time, each corresponding to a target object at runtime. Each such proxy object has associated therewith several items of information, including the class of the target object corresponding to the proxy object,...
CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US6038395 | US PATENTS | 14-MAR-2000
6. **Systems and methods for monitoring object activity through an external agent using a proxy object**
 Systems and methods are described for monitoring the activity of an object to aid in debugging a problem with an application using the object. An operating system registry is altered to reference a proxy object when the application attempts to reference the object. The proxy object exposes an...
CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20050114738 | US APPLICATIONS | 26-MAY-2005
7. **Program distributing method and system**
CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
JPH11312088A | JAPANESE APPLICATIONS | 09-NOV-1999
8. **Systems and methods for monitoring object activity through an external agent using a proxy object**
 Systems and methods are described for monitoring the activity of an object to aid in debugging a problem with an application using the object. An operating system registry is altered to reference a proxy object when the application attempts to reference the object. The proxy object exposes an...
CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US6892326 | US PATENTS | 10-MAY-2005
9. **Method and apparatus of a collaborative proxy system for distributed deployment of object rendering**
 A distributed object rendering method and system for a collaborative data network is disclosed. The data network, which may include the Internet, has attached computing nodes, including object requestor nodes, object source nodes, and intermediate nodes which may be proxy servers. The method can...
CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
TW449985B | TAIWANESE PATENTS | 11-AUG-2001

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10. **Systems and methods for monitoring object activity through an external agent using a proxy object** Discover Pats & Apps create proxy object file copies 1 Filter
- Systems and methods are described for monitoring the activity of an object to aid in debugging a problem with an application using the object. An operating system registry is altered to reference a proxy object when the application attempts to reference the object. The proxy object exposes an...
- CURRENT ASSIGNEES:** MICROSOFT TECH LICENSING LLC
US20030182598 | US APPLICATIONS | 25-SEP-2003
11. **Required transmission manner**
- CURRENT ASSIGNEES:** インターナショナル・ビジネス・マシーンズ・コーポレーション
JP3072709B2 | JAPANESE PATENTS | 07-AUG-2000
12. **Method and apparatus for utilizing proxy objects to communicate with target objects**
- A method for a first process in a first address space to communicate with an object in a second address space including the steps of determining, during runtime of the first process, that a communication link is needed between the first process and a target object in the second address space,...
- CURRENT ASSIGNEES:** INTL BUSINESS MACHINES CORP
US6226690 | US PATENTS | 01-MAY-2001
13. **Managed add-in framework proxy generation**
- A Managed Add-in Framework (MAF) proxy generation tool comprises a library analyzer module operable for taking as input either a type library or managed software code assembly of the existing host application, and a proxy code generation module. Also, an additional input XML file that describes...
- CURRENT ASSIGNEES:** MICROSOFT TECH LICENSING LLC
US20070234312 | US APPLICATIONS | 04-OCT-2007
14. **Method and system for testing data sources and database oriented software applications**
- In one embodiment, the present invention is a method and system for testing databases and database oriented applications through analyzing database contents and structure. The method and system provide a framework for various tests, which can be deployed against the database structure or contents....
- CURRENT ASSIGNEES:** PARASOFT CORP
US7010546 | US PATENTS | 07-MAR-2006
15. **Abstraction of host object model for managed add-in framework proxy generation**
- A Managed Add-in Framework (MAF) proxy generation tool comprises a library analyzer module operable for taking as input either a type library or managed software code assembly of the existing host application, and a proxy code generation module. Also, an additional input XML file that describes...
- CURRENT ASSIGNEES:** MICROSOFT TECH LICENSING LLC
US20070234329 | US APPLICATIONS | 04-OCT-2007
16. **Royalty collection method and system for the use of digital materials that are copyright-protected on the Internet**
- A method, system and computer program product to facilitate royalty collection with respect to online distribution of electronically published material over a computer network. In one embodiment, a method for managing use of a digital file (that includes content subject to copyright protection on...
- CURRENT ASSIGNEES:** インターナショナル・ビジネス・マシーンズ・コーポレーションINTERNATIONAL BUSINESS MASCHINES CORPORATION
JP3967881B2 | JAPANESE PATENTS | 29-AUG-2007
17. **Database application development system with improved methods for distributing and executing objects across multiple tiers**
- A database client/server development system providing support for remote sessions with user-created application objects is described. When a user desires to create a "remoteable" object from a user object, the user assigns a proxy name or alias, thereby providing a mechanism to differentiate the...
- CURRENT ASSIGNEES:** SYBASE INC
US6006230 | US PATENTS | 21-DEC-1999
18. **Distributing and synchronizing objects**
- A method and apparatus for distributing and synchronizing objects. One or more embodiments of the invention provide for distributing copies of the objects locally. By copying objects (including the data and behavior for the object) into local address space, the object's methods may be executed...
- CURRENT ASSIGNEES:** APPLE INC
US6910052 | US PATENTS | 21-JUN-2005
19. **Accessing local objects using local access proxies**
- A local access proxy is used to access a requested object, when the requested object is located in the same address space as the requester of the object. The local access proxy is built by a container of the address space, when the container receives a reference to the object. The local access proxy...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US20040019898 | US APPLICATIONS | 29-JAN-2004

Pats & Apps

create proxy object file copies

1 Filter

Top 1500 results

STIC

20. Distributing and synchronizing objects

A method and apparatus for distributing and synchronizing objects. One or more embodiments of the invention provide for distributing copies of the objects locally. By copying objects (including the data and behavior for the object) into local address space, the object's methods may be executed...

CURRENT ASSIGNEES: APPLE INC
US20050268307 | US APPLICATIONS | 01-DEC-2005

21. Distributing and synchronizing objects

A method and apparatus for distributing and synchronizing objects. One or more embodiments of the invention provide for distributing copies of the objects locally. By copying objects (including the data and behavior for the object) into local address space, the object's methods may be executed...

CURRENT ASSIGNEES: APPLE INC
US20020049579 | US APPLICATIONS | 25-APR-2002

22. Distributing and synchronizing objects

A method and apparatus for distributing and synchronizing objects. One or more embodiments of the invention provide for distributing copies of the objects locally. By copying objects (including the data and behavior for the object) into local address space, the object's methods may be executed...

CURRENT ASSIGNEES: APPLE INC
US20030004977 | US APPLICATIONS | 02-JAN-2003

23. Distributing and synchronizing objects

A method and apparatus for distributing and synchronizing objects. One or more embodiments of the invention provide for distributing copies of the objects locally. By copying objects (including the data and behavior for the object) into local address space, the object's methods may be executed...

CURRENT ASSIGNEES: APPLE INC
US6430576 | US PATENTS | 06-AUG-2002

24. Dynamic object migration method using proxy object links to support automatic object distribution in an object-oriented environment

A method and system are described which allow programs to become dynamically reconfigurable without programmer intervention. This means that the programs can be dynamically distributed among multiple computers within a computer network without modification to the source code of the programs running...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US6324543 | US PATENTS | 27-NOV-2001

25. Teamware server working over HTTP/HTTPS connections

A system for remotely accessing a resource in a network having a client-side and a server-side includes a server application having at least one server object that can access the resource, a client application comprising an interface through which a method of a proxy object can be called locally and...

CURRENT ASSIGNEES: ORACLE AMERICA INC
US6813641 | US PATENTS | 02-NOV-2004

26. Teamware server working over HTTP/HTTPS connections

A system for remotely accessing a resource in a network having a client-side and a server-side includes a server application having at least one server object that can access the resource, a client application comprising an interface through which a method of a proxy object can be called locally and...

CURRENT ASSIGNEES: ORACLE AMERICA INC
US20030009476 | US APPLICATIONS | 09-JAN-2003

27. A method of attaining data access in a primary memory based database

When the user access based on the data base of the main memory in the object when the user in the course to form a proxy object it comprises a real object the reference and the upper and the real object the same. To the object data of the access is by proxy object in the reference of the memory...

CURRENT ASSIGNEES: TELEFON AB LM ERICSSON PUBL
CN1125991A | CHINESE APPLICATIONS | 03-JUL-1996

28. Framework within a data processing system for manipulating program objects

A method for manipulating objects within a distributed object oriented environment on a data processing system. Complex issues of a distributed object oriented environment are encapsulated within a software generated framework. A plurality of abstract classes of objects with predefined...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US6336118 | US PATENTS | 01-JAN-2002

Relevance

VIEW

0 Results

137 Results

1363 Results

0 Results

0 Results

Publication Date

VIEW

View More Visualizations

1992

2007

Cur Assignee by Relevance

VIEW

INTL BUSINESS MACHINES... (160) ^

TOPIA TECH INC (2)

MICROSOFT TECH LICENS... (114)

インターナショナル・ビジネス... (1)

PARASOFT CORP (1)

インターナショナル・ビジネス... (4)

SYBASE INC (3)

APPLE INC (24) v

Notice of References Cited	Application/Control No. 14/860,289		Applicant(s)/Patent Under Reexamination MANZANO, Michael R.	
	Examiner Srirama T Channavajjala		Art Unit 2157	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20070180084-A1	08-2007	Mohanty; Subhashis	G06F11/1451	709/223
*	B	US-9143561-B2	09-2015	Manzano; Michael R.	G06F17/30174	1/1
*	C	US-20070016629-A1	01-2007	Reinsch; Matthias	G06F8/71	1/1
*	D	US-5806078-A	09-1998	Hug; Richard A.	G06F17/2288	707/999.202
*	E	US-20070027936-A1	02-2007	Stakutis; Christopher John	G06F11/1451	1/1
*	F	US-20080005114-A1	01-2008	Li; Jin	G06F17/30209	1/1
*	G	US-5909581-A	06-1999	Park; Seong-Kab	G06F8/65	717/170
*	H	US-20040158817-A1	08-2004	Okachi, Yuji	G06F8/65	717/122
*	I	US-20090013009-A1	01-2009	Nakayama; Kiyotaka	G06F11/1453	1/1
*	J	US-20060168118-A1	07-2006	Godlin; Benjamin	G06F17/30212	709/218
*	K	US-20060129627-A1	06-2006	Phillips; Robert S.	H04L63/10	709/200
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N	WO 98/56149	12-1998	PCT	GENELI,Gunnar,F	
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Applicant Initiated Interview Request Form

Application No.: 14/860,289

First Named Applicant: Michael R. Manzano

Examiner: Srirama Channavajjala

Art Unit: 2157

Status of Application: Non-Final Office Action

Tentative Participants:

(1) Siddhartha Narayan

(2)

(3)

(4)

Proposed Date of Interview: 2/8/2018

Proposed Time: 10 (☉AM☉PM)

Type of Interview Requested:(1) ☒ Telephonic(2) ☐ Personal(3) ☐ Video ConferenceExhibit To Be Shown or Demonstrated: ☒ YES☐ NO

If yes, provide brief description: Fig. 3 of the Applicant's specification

Issues To Be Discussed

Issues (Rej., Obj., etc)	Claims/ Fig. #s	Prior Art	Discussed	Agreed	Not Agreed
(1) 35 USC 101	1-20		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2) 35 USC 102	1-20	Mohanty (US 2007/010084)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(4)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Continuation Sheet Attached☐ Proposed Amendment or Arguments Attached

Brief Description of Arguments to be Presented: See body of email

An interview was conducted on the above-identified application on

NOTE: This form should be completed and filed by applicant in advance of the interview (see MPEP § 713.01). If this form is signed by a registered practitioner not of record, the Office will accept this as an indication that he or she is authorized to conduct an interview on behalf of the principal (37 CFR 1.32(a)(3)) pursuant to 37 CFR 1.34. This is not a power of attorney to any above named practitioner. See the Instruction Sheet for this form, which is incorporated by reference. By signing this form, applicant or practitioner is certifying that he or she has read the Instruction Sheet. After the interview is conducted, applicant is advised to file a statement of the substance of this interview (37 CFR 1.133(b)) as soon as possible. This application will not be delayed from issue because of applicant's failure to submit a written record of this interview.

/Siddhartha Narayan/

Applicant/Applicant's Representative Signature

Examiner/SPE Signature

SIDDHARTHA NARAYAN

Typed/Printed Name of Applicant or Representative

Applicant's/Applicant's Representative's Telephone Number

66,730

Registration Number, if applicable

This collection of information is required by 37 CFR 1.133. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 24 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.
Box & Dropbox Exhibit 1008

Instruction Sheet for:
APPLICANT INITIATED INTERVIEW REQUEST FORM
(Not to be Submitted to the USPTO)

1. If this form is signed by a registered practitioner not of record, the authority to submit the Applicant Initiated Interview Request Form is pursuant to limited authority to act in a representative capacity under 37 CFR 1.34 and further proof of authority to act in a representative capacity may be required. See 37 CFR 1.34.

The Office will accept the signed form as an indication that the registered practitioner not of record is authorized to conduct an interview on behalf of the principal in pursuant to 37 CFR 1.34.

For more information, see the "Conducting an Interview with a Registered Practitioner Acting in a Representative Capacity" notice which is available on the USPTO Web site at: <http://www.uspto.gov/patents/law/notices/2010.jsp>.

2. This is not a power of attorney to any named practitioner. Accordingly, any registered practitioner not of record named on the form does not have authority to sign a request to change the correspondence address, a request for express abandonment, a disclaimer, a power of attorney, or other document requiring the signature of the applicant, assignee of the entire interest or an attorney of record. If appropriate, a separate power of attorney to the named practitioner should be executed and filed in the US Patent and Trademark Office.
3. Any interview concerning an unpublished application under 35 U.S.C. § 122(b) with a registered practitioner not of record who obtains authorization through use of the PTOL-413A will be conducted based on the information and files supplied by the practitioner in view of the confidentiality requirements of 35 U.S.C. § 122(a).

Privacy Act Statement

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

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

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

Channavajjala, Srirama

From: Narayan, Siddhartha <siddhartha.narayan@pillsburylaw.com>
Sent: Wednesday, February 07, 2018 6:43 PM
To: Channavajjala, Srirama
Subject: Interview Agenda for Application No. 14/860,289; Attorney Docket No. 023027-0443281
Attachments: Applicant Initiated Interview Request Form 4841-9075-0556 v.1.pdf

Hi Examiner Channavajjala,

Thank you for your prompt call to schedule an interview for this case. As requested, please find attached an Interview Request form. For our interview tomorrow at 10am, I would like to discuss the proposed claim amendments to claim 1 (see below) and the rejections of the claims under 35 USC 101 and 35 USC 102.

(Proposed Amendment): A system comprising:

a first electronic device, associated with a user, configured to:

execute a first application at the first electronic device;

receive a copy of a modified first electronic file from a second application at a second electronic device associated with the user, wherein the modified first electronic file copy is automatically ~~transferred~~ received from the second application responsive to the user modifying a content of the first electronic file;

determine whether the first electronic device is in communication with a third electronic device;

automatically send the modified first electronic file copy to a third application at the third electronic device responsive to the determination that the first electronic device is in communication with the third electronic device and responsive to receiving the modified first electronic file copy from the second electronic device; and

wherein, responsive to sending the modified first electronic file copy to the third electronic device, ~~automatically cause, via the first application,~~ an older version of the first electronic file stored on the third electronic device ~~is~~ automatically caused to be replaced with the modified first electronic file copy such that the modified first electronic file copy is stored on the third electronic device in lieu of the older version of the first electronic file.

With regard to the rejection under 35 USC 101, the above claim as a whole is directed to an improvement to managing data files across a distributed network (e.g., by providing a first electronic device that acts as an in-between device that allows the second electronic device to automatically transfer a modified file to a third electronic device even if both of the second electronic device and the third electronic device are not on and connected to a network). Without the first electronic device, a file transfer from one device to another device may require that both devices are on and connected to a network.

With regard to the 35 USC 102 rejection, Mohanty (US 2007/0180084) does not appear to disclose a first electronic device that (a) receives a copy of a modified first electronic file from a second electronic device, (b) determines whether the first electronic device is in communication with a third electronic device, and (c) automatically sends the modified first electronic file copy to a third application at the third electronic device responsive to the determination that the first electronic device is in communication with the third electronic device and responsive to receiving the modified first electronic file copy from the second electronic device.

I look forward to our interview tomorrow. Please let me know if you have any questions.

Regards,
Sid

Siddhartha Narayan | Associate

Pillsbury Winthrop Shaw Pittman LLP
1650 Tysons Blvd, 14th Floor | McLean, VA 22102-4856
t 703.770.7522
siddhartha.narayan@pillsburylaw.com | website bio

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/860,289	09/21/2015	Michael R. MANZANO	023027-0443281	3426

909 7590 02/12/2018
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VIRGINIA 22102

EXAMINER

CHANNAVAJALA, SRIRAMA T

ART UNIT	PAPER NUMBER
----------	--------------

2157

NOTIFICATION DATE	DELIVERY MODE
-------------------	---------------

02/12/2018

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket_ip@pillsburylaw.com

<i>Applicant-Initiated Interview Summary</i>	Application No. 14/860,289	Applicant(s) MANZANO, Michael R.	
	Examiner Srirama T Channavajjala	Art Unit 2157	AIA Status No

All participants (applicant, applicants representative, PTO personnel):

(1) Srirama T. Channavajjala. (3) ____.

(2) Siddhartha Narayan, Associate, 66,730. (4) ____.

Date of Interview: 08 February 2018.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.

If Yes, brief description: ____.

Issues Discussed ☒101 ☐112 ☒102 ☐103 ☐Others

(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: proposed claim 1.

Identification of prior art discussed: Mohanty, US Pub. No. 2007/0180084.

Substance of Interview

(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

per interview agenda, discussed proposed claim 1, limitations "determine whether the first electronic device is in communication with a third electronic device;
automatically send the modified first electronic file copy to a third application at the third electronic device
responsive to the determination that the first electronic device is in communication with the third electronic device and
responsive to receiving the modified first electronic file copy from the second electronic device;
wherein, responsive to sending the modified first electronic file copy to the third electronic device...."
discussed 35 USC 101 step 2A, and step 2B with respect o Ventures v cap one financial;
discussed prior art of Mohanty, US Pub. No. 2007/0180084fig 1A, fig 1C, page 4, 0042, page 6, para 0050 and 0054.
Discussed instant specification page 13-15.
Applicant may further clarify claim language, No agreement reached.

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☒ Attachment

/Srirama Channavajjala/
Primary Examiner, Art Unit 2157

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) 1.133 Interviews Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiners responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicants correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,-
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicants record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiners version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, Interview Record OK on the paper recording the substance of the interview along with the date and the examiners initials.

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

In Re Patent Application Of:	Michael R. MANZANO, <i>et al.</i>	)	Attorney Docket No.:	023027-0443281
Serial No.:	14/860,289	)	Confirmation No.:	3426
Filing Date:	September 21, 2015	)	Examiner:	Srirama T. Channavajjala
		)	Art Unit:	2157
For:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK			

**RESPONSE TO NON-FINAL OFFICE ACTION
MAILED 18 DECEMBER 2017**

MAIL STOP AMENDMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA. 22313-1450

Dear Commissioner:

In response to the Non-Final Office Action mailed **December 18, 2017**, please amend the above- identified application as follows:

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 7 of this paper.

It is not believed that extensions of time or fees for net addition of claims are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned for under 37 C.F.R. § 1.136(a), and any fees required therefore (including fees for net addition of claims) are hereby authorized to be charged to Deposit Account No. 033975 (**Ref. No. 023027-0443281**).

This listing of claims will replace all prior versions and listings of claims in the Application.

LISTING OF CLAIMS:

1. **(Currently Amended)** A system comprising:
a first electronic device, associated with a user, configured to:
~~execute a first application at the first electronic device;~~
receive, via a first application at the first electronic device, a copy of a modified first electronic file from a second application at a second electronic device associated with the user, wherein the modified first electronic file copy is automatically ~~transferred~~ received from the second application responsive to the user modifying a content of the first electronic file;
determine whether the first electronic device is in communication with a third electronic device; and
automatically send, via the first application, the modified first electronic file copy to a third application at the third electronic device responsive to the determination that the first electronic device is in communication with the third electronic device and responsive to receiving the modified first electronic file copy from the second electronic device,
wherein, responsive to sending the modified first electronic file copy to the third electronic device, ~~automatically cause, via the first application,~~ an older version of the first electronic file stored on the third electronic device is automatically caused to be replaced with the modified first electronic file copy such that the modified first electronic file copy is stored on the third electronic device in lieu of the older version of the first electronic file.
2. **(Currently Amended)** The system of claim 1, wherein the first electronic device is configured to:
receive, via the first application, a copy of a modified second electronic file from [[a]] the third application at [[a]] the third electronic device associated with the user, wherein the modified second electronic file copy is automatically ~~transferred~~ received from the third application responsive to the user modifying a content of the second electronic file;

determine whether the first electronic device is in communication with the second electronic device; and

automatically send, via the first application, the modified second electronic file copy to the second application at the second electronic device responsive to the determination that the first electronic device is in communication with the second electronic device and responsive to receiving the modified second electronic file copy from the third electronic device,

wherein, responsive to sending the modified second electronic file copy to the second electronic device, ~~automatically cause, via the first application,~~ an older version of the second electronic file stored on the second electronic device is automatically caused to be replaced with the modified second electronic file copy such that the modified second electronic file copy is stored on the second electronic device in lieu of the older version of the second electronic file.

3. **(Currently Amended)** The system of claim [[2]] 1, wherein at least one of the second application or the third application comprises a runtime environment for mobile-agent objects.

4. **(Currently Amended)** The system of claim [[2]] 1, wherein the first electronic device is configured to:

store, via the first application, the modified first electronic file copy to a memory device associated with the first electronic device.

5. **(Original)** The system of claim 4, wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device in lieu of an older version of the first electronic file copy that was stored on the memory device associated with the first electronic device.

6. **(Original)** The system of claim 4, wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device responsive to a determination that the first electronic device is not in communication with the third electronic device.

7. **(Original)** The system of claim 6, wherein the first electronic device is configured to:

responsive to resuming communication with the third electronic device, automatically transfer, via the first application, the modified first electronic file copy to the third electronic device to cause the older version of the first electronic file stored on the third electronic device to be replaced with the modified first electronic file copy.

8. **(Original)** The system of claim 1, wherein the second application is operable to create a first mobile object, and wherein the first mobile object is operable to create a proxy object at the first electronic device.

9. **(Original)** The system of claim 8, wherein the first mobile object is operable to provide the modified first electronic file copy to the proxy object.

10. **(Original)** The system of claim 9, wherein the proxy object is operable to store the modified first electronic file copy on a memory device associated with the first electronic device.

11. **(Currently Amended)** A method comprising:

~~executing a first application at a first electronic device associated with a user;~~
receiving, via a first application at a first electronic device, a copy of a modified first electronic file from a second application at a second electronic device associated with ~~[[the]]~~ a user, wherein the modified first electronic file copy is automatically ~~transferred~~ received from the second application responsive to the user modifying a content of the first electronic file;

determining whether the first electronic device is in communication with a third electronic device; and

automatically sending, via the first application, the modified first electronic file copy to a third application at the third electronic device responsive to the determination that the first electronic device is in communication with the third electronic device and responsive to receiving the modified first electronic file copy from the second electronic device,

wherein, responsive to sending the modified first electronic file copy to the third electronic device, ~~automatically causing, via the first application,~~ an older version of the first electronic file stored on the third electronic device is automatically caused to be replaced with the modified first

electronic file copy such that the modified first electronic file copy is stored on the third electronic device in lieu of the older version of the first electronic file.

12. **(Currently Amended)** The method of claim 11, further comprising:

receiving, via the first application, a copy of a modified second electronic file from [[a]] the third application at [[a]] the third electronic device associated with the user, wherein the modified second electronic file copy is automatically ~~transferred~~ received from the third application responsive to the user modifying a content of the second electronic file;

determining whether the first electronic device is in communication with the second electronic device; and

automatically sending, via the first application, the modified second electronic file copy to the second application at the second electronic device responsive to the determination that the first electronic device is in communication with the second electronic device and responsive to receiving the modified second electronic file copy from the third electronic device,

wherein, responsive to sending the modified second electronic file copy to the second electronic device, automatically causing, via the first application, an older version of the second electronic file stored on the second electronic device is automatically caused to be replaced with the modified second electronic file copy such that the modified second electronic file copy is stored on the second electronic device in lieu of the older version of the second electronic file.

13. **(Currently Amended)** The method of claim [[12]] 11, wherein at least one of the second application or the third application comprises a runtime environment for mobile-agent objects.

14. **(Currently Amended)** The method of claim [[12]] 11, further comprising:

storing, via the first application, the modified first electronic file copy to a memory device associated with the first electronic device.

15. **(Original)** The method of claim 14, wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device in lieu of an older version of the first electronic file copy that was stored on the memory device associated with the first electronic device.

16. **(Original)** The method of claim 14, wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device responsive to a determination that the first electronic device is not in communication with the third electronic device.

17. **(Original)** The method of claim 16, further comprising:
responsive to resuming communication with the third electronic device, automatically transferring, via the first application, the modified first electronic file copy to the third electronic device to cause the older version of the first electronic file stored on the third electronic device to be replaced with the modified first electronic file copy.

18. **(Original)** The method of claim 11, wherein the second application is operable to create a first mobile object, and wherein the first mobile object is operable to create a proxy object at the first electronic device.

19. **(Original)** The method of claim 18, wherein the first mobile object is operable to provide the modified first electronic file copy to the proxy object.

20. **(Original)** The method of claim 19, wherein the proxy object is operable to store the modified first electronic file copy on a memory device associated with the first electronic device.

REMARKS

In response to the Non-Final Office Action mailed **December 18, 2017** (hereinafter “Office Action”), claims 1-4 and 11-14 have been amended. Claims 1-20 are pending. In view of the foregoing amendments and following comments, allowance of all the claims pending in the application is respectfully requested.

EXAMINER INTERVIEW SUMMARY

Examiner Channavajjala is thanked for the courtesies extended to Applicant’s representative (the undersigned) during a telephonic interview conducted on February 8, 2018. During the interview, proposed claim amendments were discussed. Specifically, amendments were discussed to overcome the rejections of the claims under Sections 101 and 102. No agreement was reached.

DOUBLE PATENTING REJECTION

Applicant respectfully notes the double patenting rejection of claims 1-20 (as allegedly being unpatentable over claims 1-13 of U.S. Patent No. 9,143,561) (*Office Action* at 3-8). Without agreeing or acceding to the propriety or the merits of the rejection, Applicant elects to defer response to this rejection until this rejection is the only rejection remaining. If after consideration of the arguments presented herein the Examiner considers this rejection to be the only rejection remaining, the Examiner is kindly asked to contact the undersigned by telephone to resolve this rejection, for example, by submission of a Terminal Disclaimer in this application or amendment of the claims in this application such that there is no longer an obviousness-type double patenting rejection.

REJECTION UNDER 35 U.S.C. § 101

Applicant traverses the Section 101 rejection. The claims are patent-eligible **under the first step** of the two-part *Alice* test, and no further analysis is necessary to find the claims eligible. Specifically, for example, as set forth in recent Federal Circuit decisions, a claim is patent-eligible **under the first step** of the two-part *Alice* test if the claim as a whole is directed to a particular useful application that provides an improvement to another technology or technical field,

regardless of whether the claim involves an abstract idea (e.g., use of a mathematical formula) or recites generic, conventional components (e.g., inertial sensors for collecting information, processors for processing, etc.). As an example, in *Thales Visionix Inc., v. United States*, No. 2015-1080 (Fed. Cir. March 8, 2017),¹ for example, the Federal Circuit held claims to be patent-eligible, where the claims recited (1) the use of two inertial sensors—one mounted on a tracked object and the other mounted on a moving reference frame, (2) the receipt of signals from the two inertial sensors, and (3) a determination of an orientation of an object based on the received sensor signals, as shown in the following table comparing claim 22 at issue in the *Thales* case. *See Thales* at 4.

Thales: Patent-Eligible Claim 22
22. A method comprising determining an orientation of an object relative to a moving reference frame based on signals from two inertial sensors mounted respectively on the object and on the moving reference frame.

In particular, despite claim 22 involving an abstract idea (e.g., use of a mathematical formula) and generic computer components, the *Thales* court found during its Alice step one analysis that the claims as a whole are not directed to the abstract idea, but instead directed to providing an improvement to another technology or technical field (e.g., potentially increasing accuracy and/or efficiency in object position/orientation determination systems). *See Thales* at 10 (“Just as claims directed to a new and useful technique for defining a database that runs on general-purpose computer equipment are patent eligible, ... so too are claims directed to a new and useful technique for using sensors to more efficiently track an object on a moving platform.”); *see also McRo, Inc. v. Bandai Nameco Games America Inc.*, No. 2015-1080 (Fed. Cir. Sept. 13, 2016)² at 27 (holding that the claim at issue uses specific “rules in a process specifically designed to achieve an improved technological result in conventional industry practice” and, “therefore, is not directed to an abstract idea.”).

Pursuant to the Federal Circuit decisions, the claims in the instant application are patent-eligible under Alice step one at least because their character is not directed to an abstract idea (or other excluded subject matter). *See McRo* at 23 (“The abstract idea exception has been

¹ Available at <http://www.cafc.uscourts.gov/sites/default/files/opinions-orders/15-5150.Opinion.3-6-2017.1.PDF>.

² Available at <http://www.cafc.uscourts.gov/sites/default/files/s15-1080.Opinion.9-9-2016.2.pdf>.

applied to prevent patenting of claims that abstractly cover results where it matters not by what process or machinery the result is accomplished. ... [However, a] patent may issue for the means or method of producing a certain result, or effect....”) and *Thales* at 10 (“That a mathematical equation is required to complete the claimed method and system does not doom the claims to abstraction.”). Specifically, in the instant application, the claims as a whole recite at least a particular technical solution (e.g., automatically receiving a modified electronic file copy responsive to a user modifying a content of an electronic file and automatically sending the modified electronic file copy responsive to a determination that a first electronic device is in communication with a third electronic device and responsive to receiving the modified electronic file copy) for facilitating improvement of sharing electronic files between electronic devices across a distributed network.

For example, as discussed during the interview, by automatically receiving a modified electronic file copy responsive to a user modifying a content of the electronic file, the modified electronic file copy can be made available at another electronic device responsive to the electronic file being modified and as a result, file synchronization can be maintained between electronic devices (*see* paragraphs [0040]-[0043] of the Applicant’s originally filed specification). Therefore, the claim recites a technical solution of maintaining file synchronization between electronic devices in response to a modification of an electronic file. Further, as discussed during the interview, by automatically receiving the modified electronic file copy and automatically sending the modified electronic file copy responsive to a determination that a first electronic device is in communication with a third electronic device, the modified electronic file copy can be transferred from the second electronic device to the third electronic device (via the first electronic device) even if the second electronic device and the third electronic device are not both on and connected to a network for communication at the same time (*see* paragraph [0041] of the Applicant’s originally filed specification and page 10 of provisional Application No. 60/986,896, which is incorporated by reference). In other words, in conventional systems that transfer electronic files between electronic devices, the conventional systems may require both electronic devices to be on and connected to a network at the same time for the transfer of electronic files between such electronic devices (*see* page 10 of provisional Application No. 60/986,896, which is incorporated by reference). However, as discussed during the interview, the claims provide a technical solution to this problem by allowing transfer of electronic files between electronic

devices (via another electronic device) even if both of the electronic devices are not on and connected to a network for communication at the same time.

In view of the foregoing analysis, it is clear that the present claims as a whole recite at least a particular technical solution (e.g., automatically receiving a modified electronic file copy responsive to a user modifying a content of the electronic file and automatically sending the modified electronic file copy responsive to a determination that a first electronic device is in communication with a third electronic device and responsive to receiving the modified electronic file copy) for facilitating improvement of sharing electronic files between electronic devices across a distributed network. Accordingly, the present claims are not directed to a judicial exception under the first step of the two-part *Alice* test and that no further analysis is necessary to find the present claims eligible under Section 101. Based on the foregoing, Applicant respectfully requests withdrawal of the Section 101 rejection.

REJECTION UNDER 35 U.S.C. § 102

Applicant disagrees with the propriety of the Section 102 rejection as allegedly being anticipated by U.S. Patent Application Publication No. 2007/0180084 to Mohanty (“Mohanty”). Nevertheless, solely to expedite prosecution of this case, Applicant has amended the claims. Mohanty does not disclose at least the following features of independent claim 1 (at least as currently amended):

receive, via a first application at the first electronic device, a copy of a modified first electronic file from a second application at a second electronic device associated with the user, wherein the modified first electronic file copy is automatically received from the second application responsive to the user modifying a content of the first electronic file;

determine whether the first electronic device is in communication with a third electronic device; and

automatically send, via the first application, the modified first electronic file copy to a third application at the third electronic device responsive to the determination that the first electronic device is in communication with the third electronic device and responsive to receiving the modified

first electronic file copy from the second electronic device.
(Emphasis Added).

Independent claim 11 recites similar features.

For instance, Mohanty describes a logical document management system 10 that is able to back up files 25 and 27 to selected wireless mobile devices 12, 14, and 16 through an over the air communication network 20 (paragraph [0028]). Once the files are stored in these mobile devices, the mobile devices may be able to use the file (paragraph [0030]). Further, Mohanty describes that since multiple mobile devices have access to a particular file that has been distributed to them over the communication network 20, and since the copies of the files are changeable in several mobile devices, a network management system described in Mohanty provides for weighted merging of changes so as to provide file synchronization (paragraph [0032]).

The Office Action asserts that mobile device 12 in Mohanty can be made to correspond to the claimed “first electronic device” (see page 13 of the Office Action). As discussed during the interview, even assuming *arguendo* that such a correspondence can be made, which the Applicant does not acquiesce to, Applicant respectfully submits that Mohanty fails to disclose that the mobile device 12 (a) automatically receives a modified copy of an electronic file responsive to a user modifying content of the electronic file, (b) determines whether the mobile device 12 is in communication with another device, and (c) automatically sends the modified copy of the electronic file to the other device responsive to a determination that the mobile device 12 is in communication with the other device and responsive to receiving the modified copy of the electronic file. Accordingly, even if the mobile device 12 in Mohanty can be made to correspond to the claimed “first electronic device,” Applicant respectfully submits that Mohanty fails to disclose all of the features of independent claim 1.

For at least the foregoing reasons, Applicant requests withdrawal of the Section 102 rejection of the independent claims based on Mohanty. The dependent claims are allowable because they each ultimately depend from an allowable independent claim, as well as for the further features they recite.

CONCLUSION

Having addressed each of the foregoing rejections, it is respectfully submitted that a full and complete response has been made to the outstanding Office Action and, as such, the application is in condition for allowance. Notice to that effect is respectfully requested.

If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Respectfully submitted,

Date: **February 13, 2018**

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Electronic Acknowledgement Receipt

EFS ID:	31777645
Application Number:	14860289
International Application Number:	
Confirmation Number:	3426
Title of Invention:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	909
Filer:	Siddhartha A. Narayan/Miriam Nelsen Awan
Filer Authorized By:	Siddhartha A. Narayan
Attorney Docket Number:	023027-0443281
Receipt Date:	13-FEB-2018
Filing Date:	21-SEP-2015
Time Stamp:	14:31:31
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		023027-0443281_Response.pdf	97198 9138f7621bf2aa5dd76dfbf687ca02ac8fdd17a8	yes	12

Multipart Description/PDF files in .zip description			
Document Description		Start	End
Amendment/Req. Reconsideration-After Non-Final Reject		1	1
Claims		2	6
Applicant Arguments/Remarks Made in an Amendment		7	12
Warnings:			
Information:			
Total Files Size (in bytes):		97198	
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>			

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/860,289	Filing Date 09/21/2015	<input type="checkbox"/> To be Mailed
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ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

(Column 1)

(Column 2)

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

APPLICATION AS AMENDED – PART II

(Column 1)

(Column 2)

(Column 3)

AMENDMENT	02/13/2018	CLAIMS REMAINING AFTER AMENDMENT	Minus	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X \$50 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0	X \$230 =	0
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))						
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
TOTAL ADD'L FEE						0	

(Column 1)

(Column 2)

(Column 3)

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

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

LIE
CAROL BARNES

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

PLUS Search Results for S/N 14860289, Searched Fri Mar 16 08:45:52 EDT 2018

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

5805831 99	5539825 98	5940844 98
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Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed		PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce	
Electronic Petition Request	TERMINAL DISCLAIMER TO OBIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT		
Application Number	14860289		
Filing Date	21-Sep-2015		
First Named Inventor	Michael MANZANO		
Attorney Docket Number	023027-0443281		
Title of Invention	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK		
<input checked="" type="checkbox"/> Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action <input checked="" type="checkbox"/> This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.			
Owner	Percent Interest		
TOPIA TECHNOLOGY	100%		
<p>The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)</p> <p>9143561</p> <p>as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.</p> <p>In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:</p> <ul style="list-style-type: none"> - expires for failure to pay a maintenance fee; - is held unenforceable; - is found invalid by a court of competent jurisdiction; - is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; - has all claims canceled by a reexamination certificate; - is reissued; or - is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer. <p><input checked="" type="radio"/> Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.</p>			

<input type="radio"/> I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.	
Applicant claims the following fee status: <input checked="" type="radio"/> Small Entity <input type="radio"/> Micro Entity <input type="radio"/> Regular Undiscounted	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.	
THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES I certify, in accordance with 37 CFR 1.4(d)(4) that I am: <input checked="" type="radio"/> An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application Registration Number <u>66730</u> <input type="radio"/> A sole inventor <input type="radio"/> A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application <input type="radio"/> A joint inventor; all of whom are signing this request	
Signature	/Siddhartha Narayan/
Name	Siddhartha Narayan

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
 Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

Electronic Patent Application Fee Transmittal

Application Number:	14860289			
Filing Date:	21-Sep-2015			
Title of Invention:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK			
First Named Inventor/Applicant Name:	Michael R. MANZANO			
Filer:	Siddhartha A. Narayan/Miriam Nelsen Awan			
Attorney Docket Number:	023027-0443281			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	2814	1	160	160
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				160

Doc Code: DISQ.E.FILE

Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 14860289

Filing Date: 21-Sep-2015

Applicant/Patent under Reexamination: MANZANO

Electronic Terminal Disclaimer filed on March 23, 2018

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt

EFS ID:	32140352
Application Number:	14860289
International Application Number:	
Confirmation Number:	3426
Title of Invention:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	909
Filer:	Siddhartha A. Narayan/Miriam Nelsen Awan
Filer Authorized By:	Siddhartha A. Narayan
Attorney Docket Number:	023027-0443281
Receipt Date:	23-MAR-2018
Filing Date:	21-SEP-2015
Time Stamp:	15:22:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 160
RAM confirmation Number	032618INTEFSW00001773033975
Deposit Account	033975
Authorized User	Miriam Awan

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

Box & Dropbox Exhibit 1008

37 CFR 1.19 (Document supply fees)
 37 CFR 1.20 (Post Issuance fees)
 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	33578	no	2
			0426dc2803f562cc99de437fbc45cb8ac80f7550		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30618	no	2
			b48b1d0e2ce5ad3087ed3afea8ea1dde33ef048e		

Warnings:

Information:

Total Files Size (in bytes):			64196
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

909 7590 04/12/2018
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

EXAMINER

CHANNAVAJJALA, SRIRAMA T

ART UNIT

PAPER NUMBER

2157

DATE MAILED: 04/12/2018

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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14/860,289

09/21/2015

Michael R. MANZANO

023027-0443281

3426

TITLE OF INVENTION: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0	\$0	\$500	07/12/2018

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

909 7590 04/12/2018
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/860,289	09/21/2015	Michael R. MANZANO	023027-0443281	3426

TITLE OF INVENTION: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0	\$0	\$500	07/12/2018

EXAMINER	ART UNIT	CLASS-SUBCLASS
CHANNAVAJJALA, SRIRAMA T	2157	707-204000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/860,289	09/21/2015	Michael R. MANZANO	023027-0443281	3426

909 7590 04/12/2018
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

EXAMINER

CHANNAVAJJALA, SRIRAMA T

ART UNIT	PAPER NUMBER
----------	--------------

2157

DATE MAILED: 04/12/2018

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 14/860,289	Applicant(s) MANZANO, Michael R.	
	Examiner Srirama T Channavajjala	Art Unit 2157	AIA Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2/13/2018.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are See Continuation Sheet. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov**.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some *c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. ____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file areply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	5. <input checked="" type="checkbox"/> Examiner's Amendment/Comment
2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date ____.	6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance
3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material ____.	7. <input type="checkbox"/> Other ____.
4. <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date. <u>3/23/2018</u> .	

/Srirama Channavajjala/ Primary Examiner, Art Unit 2157	
--	--

Continuation of 3. The allowed claim(s) is/are: 1,3-11,13-20 (re-numbered : 1-18)

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

This application is a CON of 12/267,852 filed 11/10/2008 is now US PAT 9,143,561

DETAILED ACTION

1. Claims 1,3-11,13-20 are allowed in this application.

Drawings

2. The Drawings filed on 9/21/2015 are acceptable for examination purpose

Priority

3. Applicant's claim for the benefit of a US Provisional application 60/986,896 filed 11/9/2007 under 35 U.S.C. 119(e) is acknowledged.

Double Patenting

4. In view of applicant's terminal disclaimer approved on 3/23/2018, the double patent rejection as set forth in the previous office action is hereby withdrawn.

35 USC § 101

5. In view of applicant's amendment, remarks at page 7-10 (2/13/2018), further examiner's amendment, the rejection under 35 USC 101 is hereby withdrawn.

EXAMINER'S AMENDMENT

Interview:

6. On 3/23/2018, a telephone call was made to applicant's representative Siddharth A. Narayan, Reg. No. 66,730 about the amendment to the claims 1,11 and cancel claims 2,12 in order to allow the case. The attorney agreed with the Examiner's proposal and authorization has given for an Examiner's Amendment. Total claims allowed: 1,3-11,13-20 (re-numbered as 1-18).

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing Of Claims:

Please amend the claims as follows:

1. **(Currently Amended)** A system comprising:

a first electronic device, associated with a user, configured to:

receive, via a first application at the first electronic device, a copy of a modified first electronic file from a second application at a second electronic device associated with the user, wherein the modified first electronic file copy is automatically received from the second application responsive to the user modifying a content of the first electronic file;

determine whether the first electronic device is in communication with a third electronic device; [[and]]

automatically send, via the first application, the modified first electronic file copy to a third application at the third electronic device responsive to the determination that the first electronic device is in communication with the third electronic device and responsive to receiving the modified first electronic file copy from the second electronic device;[[,]]

receive, via the first application, a copy of a modified second electronic file from the third application at the third electronic device associated with the user, wherein the modified second electronic file copy is automatically received from the third application responsive to the user modifying a content of the second electronic file;

determine whether the first electronic device is in communication with the second electronic device; and

automatically send, via the first application, the modified second electronic file copy to the second application at the second electronic device responsive to the determination that the first electronic device is in communication with the second electronic device and responsive to receiving the modified second electronic file copy from the third electronic device,

wherein, responsive to sending the modified first electronic file copy to the third electronic device, an older version of the first electronic file stored on the third electronic device is automatically caused to be replaced with the modified first electronic file copy such that the modified first electronic file copy is stored on the third electronic device in lieu of the older version of the first electronic file, and

wherein, responsive to sending the modified second electronic file copy to the second electronic device, an older version of the second electronic file stored on the second electronic device is automatically caused to be replaced with the modified second electronic file copy such that the modified second electronic file copy is stored on the second electronic device in lieu of the older version of the second electronic file.

2. **(Canceled).**

3. **(Previously Presented)** The system of claim 1, wherein at least one of the second application or the third application comprises a runtime environment for mobile-agent objects.

4. **(Previously Presented)** The system of claim 1, wherein the first electronic device is configured to:

store, via the first application, the modified first electronic file copy to a memory device associated with the first electronic device.

5. **(Original)** The system of claim 4, wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device in lieu of an older version of the first electronic file copy that was stored on the memory device associated with the first electronic device.

6. **(Original)** The system of claim 4, wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device responsive to a determination that the first electronic device is not in communication with the third electronic device.

7. **(Original)** The system of claim 6, wherein the first electronic device is configured to:

responsive to resuming communication with the third electronic device, automatically transfer, via the first application, the modified first electronic file copy to the third electronic device to cause the older version of the first electronic file stored on the third electronic device to be replaced with the modified first electronic file copy.

8. **(Original)** The system of claim 1, wherein the second application is operable to create a first mobile object, and wherein the first mobile object is operable to create a proxy object at the first electronic device.

9. **(Original)** The system of claim 8, wherein the first mobile object is operable to provide the modified first electronic file copy to the proxy object.

10. **(Original)** The system of claim 9, wherein the proxy object is operable to store the modified first electronic file copy on a memory device associated with the first electronic device.

11. **(Currently Amended)** A method comprising:

receiving, via a first application at a first electronic device, a copy of a modified first electronic file from a second application at a second electronic device associated with a user, wherein the modified first electronic file copy is automatically received from the second application responsive to the user modifying a content of the first electronic file;

determining whether the first electronic device is in communication with a third electronic device; [[and]]

automatically sending, via the first application, the modified first electronic file copy to a third application at the third electronic device responsive to the determination that the first electronic device is in communication with the third electronic device and responsive to receiving the modified first electronic file copy from the second electronic device;[[,]]

receiving, via the first application, a copy of a modified second electronic file from the third application at the third electronic device associated with the user, wherein the modified second electronic file copy is automatically received from the third application responsive to the user modifying a content of the second electronic file;

determining whether the first electronic device is in communication with the second electronic device; and

automatically sending, via the first application, the modified second electronic file copy to the second application at the second electronic device responsive to the determination that the first electronic device is in communication with the second electronic device and responsive to receiving the modified second electronic file copy from the third electronic device,

wherein, responsive to sending the modified first electronic file copy to the third electronic device, an older version of the first electronic file stored on the third electronic device is automatically caused to be replaced with the modified first electronic file copy such that the modified first electronic file copy is stored on the third electronic device in lieu of the older version of the first electronic file, and

wherein, responsive to sending the modified second electronic file copy to the second electronic device, an older version of the second electronic file stored on the second electronic device is automatically caused to be replaced with the modified second electronic file copy such that the modified second electronic file copy is stored on the second electronic device in lieu of the older version of the second electronic file.

12. **(Canceled).**

13. **(Previously Presented)** The method of claim 11, wherein at least one of the second application or the third application comprises a runtime environment for mobile-agent objects.

14. **(Previously Presented)** The method of claim 11, further comprising:
storing, via the first application, the modified first electronic file copy to a memory device associated with the first electronic device.

15. **(Original)** The method of claim 14, wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device in lieu of an older version of the first electronic file copy that was stored on the memory device associated with the first electronic device.

16. **(Original)** The method of claim 14, wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device responsive to a determination that the first electronic device is not in communication with the third electronic device.

17. **(Original)** The method of claim 16, further comprising:
responsive to resuming communication with the third electronic device, automatically transferring, via the first application, the modified first electronic file copy to the third electronic device to cause the older version of the first electronic file stored on the third electronic device to be replaced with the modified first electronic file copy.

18. **(Original)** The method of claim 11, wherein the second application is operable to create a first mobile object, and wherein the first mobile object is operable to create a proxy object at the first electronic device.

19. **(Original)** The method of claim 18, wherein the first mobile object is operable to provide the modified first electronic file copy to the proxy object.

20. **(Original)** The method of claim 19, wherein the proxy object is operable to store the modified first electronic file copy on a memory device associated with the first electronic device.

Reasons for Allowance

Claims 1,3-11,13-20 (re-numbered as 1-18) are allowed.

The following is an examiner's statement of reasons:

In view of the applicant's amendment to the claims, arguments at page 10-11 (2/13/2018), and further examiner amendment to the claims 1,11 and cancel claims 2,12, the prior art of record Mohanty, US Pub. No. 2007/0180084 do not disclose, make obvious, or otherwise suggest the structure of the applicant's

"automatically send, via the first application, the modified second electronic file copy to the second application at the second electronic device responsive to the determination that the first electronic device is in communication with the second electronic device and responsive to receiving the modified second electronic file copy from the third electronic device"

"wherein, responsive to sending the modified second electronic file copy to the second electronic device, an older version of the second electronic file stored on the second electronic device is automatically caused to be replaced with the modified second electronic file copy such that the modified second electronic file copy is stored on the second electronic device in lieu of the older version of the second electronic file".

These features, together with the other limitations of the independent claims are novel and non-obvious over the prior art of record. The dependent claims 3-10,13-20 being definite, enabled by the specification, and further limiting to the independent claims are also allowable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Srirama Channavajjala whose telephone number is 571-272-4108. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Trujillo James, can be reached on (571) 272- 3677. The fax phone numbers for the organization where the application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)

/Srirama Channavajjala/
Primary Examiner, Art Unit 2157

<i>Examiner-Initiated Interview Summary</i>	Application No. 14/860,289	Applicant(s) MANZANO, Michael R.	
	Examiner Srirama T Channavajjala	Art Unit 2157	AIA Status No

All participants (applicant, applicant's representative, PTO personnel):

(1) Srirama T. Channavajjala. (3) ____.

(2) Siddhartha A Narayan, Reg.No. 66,730. (4) ____.

Date of Interview: 23 March 2018.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: ____.

Issues Discussed ☐ 101 ☐ 112 ☐ 102 ☐ 103 ☐ Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 1-2 and 11-12.

Identification of prior art discussed: ____.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

On 3/23/2018, a telephone call was made to applicant's representative Siddharth A. Narayan, Reg. No. 66,730 about the amendment to the claims 1,11 and cancel claims 2,12 in order to allow the case. The attorney agreed with the Examiner's proposal and authorization has given for an Examiner's Amendment. Total claims allowed: 1,3-11,13-20 (re-numbered as 1-18). Examiner acknowledges applicant's "terminal disclaimer" and approved.

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☒ Attachment

/Srirama Channavajjala/ Primary Examiner, Art Unit 2157	
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Notice of References Cited	Application/Control No. 14/860,289		Applicant(s)/Patent Under Reexamination MANZANO, Michael R.	
	Examiner Srirama T Channavajjala		Art Unit 2157	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20060074985-A1	04-2006	Wolfish; Howard	G06Q20/322	1/1
*	B	US-20060143129-A1	06-2006	Holm; Jukka	G06F8/61	705/52
*	C	US-20040133629-A1	07-2004	Reynolds, Brian	G06F17/30902	709/202
*	D	US-20020035697-A1	03-2002	McCurdy, Kevin	G06F17/30011	726/3
*	E	US-20030028514-A1	02-2003	Lord, Stephen Philip	G06F11/2064	1/1
*	F	US-20030078946-A1	04-2003	Costello, Laurie	G06F11/2064	1/1
	G					
	H					
	I					
	J					
	K					
	L					
	M					


FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes 	Application/Control No. 14/860,289	Applicant(s)/Patent Under Reexamination MANZANO, Michael R.
	Examiner Srirama T Channavajjala	Art Unit 2157

CPC - Searched*		
Symbol	Date	Examiner
G06F17/30132;30017;30067;3007;3023;2288;30091;30129;30176;30194;	12/13/2017	SC
G06F8/71	12/13/2017	SC
G06F17/30082;30165;301;30091;30174;30088	03/23/2018	SC

CPC Combination Sets - Searched*		
Symbol	Date	Examiner


US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Inventor searched	12/12/2017	SC
PLUS search	12/12/2017	SC
IP.COM search attached	12/12/2017	SC
EAST search attached	12/12/2017	SC

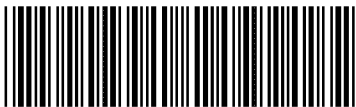
Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	G06F17/30082;30165;301;30091;30174;30088	03/23/2018	SC

/Srirama Channavajjala/ Primary Examiner, Art Unit 2157	
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<i>Index of Claims</i> 	Application/Control No. 14/860,289	Applicant(s)/Patent Under Reexamination MANZANO, Michael R.
	Examiner Srirama T Channavajjala	Art Unit 2157

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

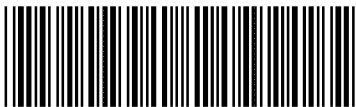
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CLAIM		DATE								
Final	Original	12/13/2017	03/23/2018							
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	2	✓	-							
2	3	✓	=							
3	4	✓	=							
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16	18	✓	=							
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18	20	✓	=							

Issue Classification 	Application/Control No. 14/860,289	Applicant(s)/Patent Under Reexamination MANZANO, Michael R.	
	Examiner Srirama T Channavajjala	Art Unit 2157	

CPC						
Symbol					Type	Version
G06F	/	17	/	30082	F	2013-01-01
G06F	/	17	/	30	I	2013-01-01
G06F	/	15	/	16	I	2013-01-01
G06F	/	17	/	30165	I	2013-01-01
G06F	/	17	/	301	I	2013-01-01
G06F	/	17	/	30091	I	2013-01-01
G06F	/	17	/	30174	I	2013-01-01
H04L	/	67	/	1095	I	2013-01-01
G06F	/	17	/	30088	I	2013-01-01

CPC Combination Sets					
Symbol				Type	Set
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NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 18	
/Srirama Channavajjala/ Primary Examiner, Art Unit 2157 (Primary Examiner) _____ (Date) 23 March 2018		O.G. Print Claim(s) 1	O.G. Print Figure 2 and 3

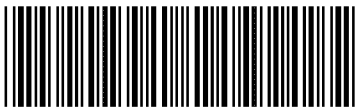
Issue Classification 	Application/Control No. 14/860,289	Applicant(s)/Patent Under Reexamination MANZANO, Michael R.
	Examiner Srirama T Channavajjala	Art Unit 2157

INTERNATIONAL CLASSIFICATION			
CLAIMED			
G06F	/	17	/ 30
NON-CLAIMED			
	/		/

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	18	
/Srirama Channavajjala/ Primary Examiner, Art Unit 2157	23 March 2018	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2 and 3

Issue Classification 	Application/Control No. 14/860,289	Applicant(s)/Patent Under Reexamination MANZANO, Michael R.
	Examiner Srirama T Channavajjala	Art Unit 2157

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant	<input type="checkbox"/> CPA	<input checked="" type="checkbox"/> T.D.	<input type="checkbox"/> R.1.47
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CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	9	10	17	19										
	2	10	11	18	20										
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5	6	13	15												
6	7	14	16												
7	8	15	17												
8	9	16	18												

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 18	
/Srirama Channavajjala/ Primary Examiner, Art Unit 2157 (Primary Examiner) _____ (Date) 23 March 2018		O.G. Print Claim(s) 1	O.G. Print Figure 2 and 3

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3/23/2018

CURRENT ASSIGNEES: SIEMENS AG

WO200508593A2 | WIPO APPLICATIONS | 08-SEP-2005

Pats & Apps

old version files modify m...

+ 0 mods |

1 filter

STIC**10. Processing software for use in generating difference files**

Systems and methods are provided for, for example byte-level file differencing. Software/executable changes between file versions include primary changes/logical changes, which are defined to be the source code changes, and secondary changes. The secondary changes generally result from the primary...

CURRENT ASSIGNEES: INNOCAPATH SOFTWARE INC

KR20060026890A | KOREA APPLICATIONS | 24-MAR-2006

11. Updatable mobile handset based on linux with compression and decompression techniques

There are two different types of compression used on the Embedded Linux Platform that the present invention is targeting. For the kernel, a singular compression is used. A whole kernel is compressed into a single compressed zimage by zlib at once. When the kernel is loaded into RAM, the whole kernel...

CURRENT ASSIGNEES: QUALCOMM INC

US20060180933 | US APPLICATIONS | 24-AUG-2006

12. Build optimizer tool for efficient management of software builds for mobile devices

A build optimization tool analyzes builds of software/firmware to determine the ordering of code objects in first and second code versions for an electronic client device such as a cellular phone, personal digital assistant, or pager. The build optimization tool produces information for use by a...

CURRENT ASSIGNEES: QUALCOMM INC

US20070050762 | US APPLICATIONS | 01-MAR-2007

13. Method and a data processing apparatus in order to update data computer programs

The present invention relates to a delta - compression method, which in particular in the case of the updating of computer programs using particularly narrowband data transmission paths can be used for. The method according to the invention for the production of the difference data not only detects...

CURRENT ASSIGNEES: SIEMENS AG

DE1020040179A1 | GERMANY APPLICATIONS | 06-OCT-2005

14. Efficient generator of update packages for mobile devices

An efficient generator of update packages employs a new command SET PTR CACHE to take advantage of a rudimentary caching mechanism that allows exploiting of local patterns in pointer replacements.

CURRENT ASSIGNEES: QUALCOMM INC

US20060107260 | US APPLICATIONS | 18-MAY-2006

15. Wireless software upgrades with version control

A wireless communication system includes a system backbone, a host computer coupled to the system backbone, at least one base station coupled to the system backbone, the at least one base station including a base station transceiver for communicating wirelessly with mobile devices within the system...

CURRENT ASSIGNEES: SYMBOL TECH LLC

US6735434 | US PATENTS | 11-MAY-2004

16. Image processing software for use in the generation of the difference file

For example, there is provided a method and system for the differentiation of the file at the byte level. Software / executable file changes between versions, including defined as a source-code changes, and major changes / logical change, and secondary changes. These arise from major changes in...

CURRENT ASSIGNEES: イノバス・ソフトウェア・インコーポレーテッド

JP2007521546A | JAPAN APPLICATIONS | 02-AUG-2007

17. Wireless software upgrades with version control

A wireless communication system includes a system backbone, a host computer coupled to the system backbone, at least one base station coupled to the system backbone, the at least one base station including a base station transceiver for communicating wirelessly with mobile devices within the system...

CURRENT ASSIGNEES: SYMBOL TECH LLC

US6308091 | US PATENTS | 23-OCT-2001

18. Wireless software upgrades with version control

A wireless communication system includes a system backbone, a host computer coupled to the system backbone, at least one base station coupled to the system backbone, the at least one base station including a base station transceiver for communicating wirelessly with mobile devices within the system...

CURRENT ASSIGNEES: SYMBOL TECH LLC

US2003029178 | US APPLICATIONS | 11-OCT-2001

19. Build optimizer tool for efficient management of software builds for mobile devices

A build optimization tool analyzes builds of software/firmware to determine the ordering of code objects in first and second code versions for an electronic device, such as a portable media player, personal digital assistant, or pager. The build optimization tool produces information for use by a...

CURRENT ASSIGNEES: HEWLETT PACKARD DEV CO LP
EP1631282A1 | EPO APPLICATIONS | 16-AUG-2008

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STIC

20. Wireless software upgrades with version control

A wireless communication system which includes a system backbone; a host computer coupled to the system backbone; at least one base station coupled to the system backbone, the at least one base station including a base station transceiver for communicating wirelessly with mobile devices within the...

CURRENT ASSIGNEES: SYMBOL TECH LLC [+1]
US5848064 | US PATENTS | 08-DEC-1998

21. Wireless software upgrades with version control

A wireless communication system which includes a system backbone; a host computer coupled to the system backbone; at least one base station coupled to the system backbone, the at least one base station including a base station transceiver for communicating wirelessly with mobile devices within the...

CURRENT ASSIGNEES: SYMBOL TECH LLC [+1]
US5831930 | US PATENTS | 29-FEB-2000

22. Application update system for a mobile terminal

The present invention is an application (Application) relates to renew systems, mobile devices, especially having to update each module relates to the application update system. The system is a system that can be installed on the mobile terminal runs, UI module and start period to display a screens...

CURRENT ASSIGNEES: LG ELECTRONICS CO., LTD.
KR100767785B1 | KOREA PATENTS | 18-OCT-2007

23. Method and apparatus for generating and update package

Method and apparatus for generating an update package. The update package is capable of in-place updating an old version to a new version wherein the old and new versions are stored in a storage device. The method includes inserting update commands into the update package, wherein the update...

CURRENT ASSIGNEES: RED BEND SOFTWARE INC.
WO2005101200A1 | WIPO APPLICATIONS | 27-OCT-2005

24. Wireless system and method for managing logical documents

A system and method is provided for managing logical documents using a wireless mobile device. The wireless mobile device, which may be a wireless handset, connects to the management system through a wireless communication network such as a public telecommunications provider network. The network has...

CURRENT ASSIGNEES: TOR ANUMANA INC.
US20070180084 | US APPLICATIONS | 02-AUG-2007

25. System and method for updating application on mobile communication device

CURRENT ASSIGNEES: SHARP CORP.
JP2006294041A | JAPAN APPLICATIONS | 26-OCT-2006

26. Method for updating customer's mounting data respons customer raising events

Client terminal storing and installing data of the version number and responds to the user terminal user caused by the event the request message and communication network and sends it to the server system. Request information comprising data the version number and client terminal the telephone...

CURRENT ASSIGNEES: NEC CORP.
CN1288193A | CHINA APPLICATIONS | 21-MAR-2001

27. Method for updating customer's mounting data response customer raising events

Client terminal storing and installing data of the version number and responds to the user terminal user caused by the event the request message and communication network and sends it to the server system. Request information comprising data the version number and client terminal the telephone...

CURRENT ASSIGNEES: NEC CORP.
CN1201228C | CHINA PATENTS | 11-MAY-2005

28. System and method of generating applications for mobile devices

A method and system of generating target applications from Java reference applications for a particular combination of mobile devices is provided. The method includes the steps of: a) unpacking the reference application into a number of class files; and b) transforming the reference application info...

CURRENT ASSIGNEES: TIPA WIRELESS INC.
US20050086692 | US APPLICATIONS | 19-MAY-2005

Wireless system and method for managing logical documents

Page 194
3/23/2018

Disclosed is a version management device which comprises a file access verification unit that receives a request packet sent from the client and a response packet sent from the server, devices for processing request and response result from the packets, and checks if the processing request and the...

1 filter

STIC

CURRENT ASSIGNEES: NEC CORP
US20060288054 | US APPLICATIONS | 21-DEC-2006

12. File version reconciliation using hash codes

A file reconciliation process in a distributed file system uses a set of mal or log files to track the history of file modification at each of different sites, or sets of directories, in a computer system. During reconciliation, sequences of version entries associated with each file in each journal...

CURRENT ASSIGNEES: DROBOX INC
US6088679 | US PATENTS | 01-AUG-2000

13. Method for managing multiple file states for replicated files

CURRENT ASSIGNEES: MICROSOFT CORP
JP2004265414A | JAPAN APPLICATIONS | 24-SEP-2004

14. Applications for remote differential compression

Remote differential compression is integrated within applications. Objects are updated between two or more computing devices using remote differential compression (RDC) techniques such that required data transfers are minimized. An algorithm provides enhanced efficiencies for allowing the receiver...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20060184652 | US APPLICATIONS | 17-AUG-2006

15. A method for managing multiple file states for replicated files

A server file replication technique is implemented which stores three copies of a replicated file. These three files allow improved conflict resolution for the user. The shadow file is a copy of the last known good version of the file on the server. When the file is initially copied from the server...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
EP1452982A2 | EPO APPLICATIONS | 01-SEP-2004

16. Method for managing file replication in applications

Claims a method for management of the electronic document the first and second versions the method of, in the method of identifying the electronic document the first and second version and starting the synchronous event. Application program interface access of said first and second version comparing...

CURRENT ASSIGNEES: MICROSOFT CORP
CN1525315A | CHINA APPLICATIONS | 01-SEP-2004

17. Updating distributed data files using active token distributed at different times to different sites

Each file in a computer system has associated with it a token. No user is permitted to update any file unless that user is the current token holder. Thus, in multi-sited computer installations where nominally identical files are held in several data stores, only one copy of the file is ever updated...

CURRENT ASSIGNEES: BRITISH TELECOM PLC
US5884398 | US PATENTS | 16-MAR-1999

18. Method and apparatus for reconciling different versions of a file

In a distributed file environment, a system for safely updating a file wiut risk of losing work performed at one site due to work performed on the file at another site uses a journal or log at each site which is updated after a file is modified. This log is compared with the logs from other sites...

CURRENT ASSIGNEES: BINARY SRVC LLC
US5800834 | US PATENTS | 04-FEB-1997

19. Synchronization and application management for Network File System

Application is provided to manage the file. Information about the file system is mapped to the comparison file. Working version is created from the file system. The application identifies that one or more actions are performed on the working version. Behavior that have been identified are reproduced...

CURRENT ASSIGNEES: オラクル・インターナショナル・コーポレーション
JP200507100A | JAPAN APPLICATIONS | 10-MAR-2005

20. Management and synchronization application for network file system

An application is provided for managing files. Information about a file system is mapped to a comparison file. A working version is made from the file system. The application identify one or more operations were performed on the working version. The identified operations are recreated on the file...

CURRENT ASSIGNEES: ORACLE INTL CORP
US20020188667 | US APPLICATIONS | 12-DEC-2002

STIC**21. A method for managing multiple file states for replicated files**

CURRENT ASSIGNEES: MICROSOFT CORP | DISCOVER | Pats & Apps | devices file copy versions t... | + 0 mods | 1 filter
 AU2004290462A1 | AUSTRALIA PATENT DOCUMENTS | 16-SEP-2004

22. Method for managing multiple file states for replicated files

To the server the invention claims modified file of the opening active when the user to execute modification is opened the initial file is opened so that it is not locked by the file. When the user represents a direct ground or hidden in the user tries to an enterprise or open the file when the file...

CURRENT ASSIGNEES: MICROSOFT CORP
 CN1525328A | CHINA APPLICATIONS | 01-SEP-2004

23. A radio base station and a method of operating a radio base station

The present invention relates to the operation and maintenance of radio base stations in mobile communication systems. An inventive radio base station, which can be upgraded remotely in a safe way. In one embodiment of the invention, the radio base station comprises a file system comprising...

CURRENT ASSIGNEES: ANDREW LLC
 WO2005006908A1 | WIPO APPLICATIONS | 19-JAN-2005

24. Determining changes made to a source file to transmit to a target location providing a mirror copy of the source file

Provided are a method, system, and program for determining changes made to a source file to transmit to a target location providing a mirror copy of the source file. An operation to modify a source file at a source location is detected, wherein a target file at a target location includes a copy of a...

CURRENT ASSIGNEES: INTEL BUSINESS MACHINES CORP
 US20070027936 | US APPLICATIONS | 01-FEB-2007

25. File version reconciliation using hash codes

A file reconciliation process in a distributed file system uses a set of journal or log files to track the history of file modification at each of different sites, or sets of directories, in a computer system. During reconciliation, sequences of version entries associated with each file in each...

CURRENT ASSIGNEES: MITSUBISHI ELEC CORP
 EP0947932A2 | EPO APPLICATIONS | 06-OCT-1999

26. Data storage

Each file in a computer system has associated with it a token. No user is permitted to update any file unless that user is the current token holder. Thus, in multi-sited computer installations where nominally identical files are held in several data stores, only one copy of the file is ever updated...

CURRENT ASSIGNEES: BRITISH TELECOM PLC
 CA2188154C | CANADA PATENTS | 29-AUG-2000

27. Method for managing multiple file states for replicated files

A server is implemented with a modified file open action, which, when a user performs the modified open, initially opens a file without locking the file. When a user indicates (either explicitly or implicitly) that the user is attempting to or intending to open the file, the file can then be locked...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
 US20040172424 | US APPLICATIONS | 02-SEP-2004

28. Method and system for automatically updating the version of a set of files stored on content servers

A method and system for managing the replication and version synchronization of updates to a set of source files on geographically distributed heterogeneous content servers with minimal impact on a network's bandwidth. The configuration of each content server is either manually entered or...

CURRENT ASSIGNEES: PS NETWORKS INC
 US6405219 | US PATENTS | 11-JUN-2002

29. File system for distributing content in a data network and related methods

A file system for distributing content in a data network, includes a file replication and transfer system and a replicated file receiver system. The file replication and transfer system includes an interface file system which looks for changes made to contents of a file created and stored in an...

CURRENT ASSIGNEES: COMPUTER ASSOC THINK INC
 US6711572 | US PATENTS | 23-MAR-2004

30. A radio base station and a method of operating a radio base station

The present invention relates to the operation and maintenance of radio base stations in mobile communication systems. An inventive radio base station, which can be upgraded remotely in a safe way. In one embodiment of the invention, the radio base station comprises a file system comprising...

Channavajjala, Srirama

From: Narayan, Siddhartha <siddhartha.narayan@pillsburylaw.com>
Sent: Thursday, March 22, 2018 12:39 PM
To: Channavajjala, Srirama
Cc: Zhang, Ngai
Subject: Examiner's Amendment (Application No. 14/860,289; Attorney Docket No. 023027-0443281)
Attachments: Proposed Amendment for Allowance 4831-9801-7119 v.1.docx

Hi Examiner Channavajjala,

Thank you for your telephone call regarding this application. You are authorized to enter the attached claim amendments via an Examiner's Amendment to place this application in condition for allowance. Please let me know if you have any questions.

Regards,
Sid (703-770-7522)

Siddhartha Narayan | Associate
Pillsbury Winthrop Shaw Pittman LLP
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IN THE UNITED STATES PATENT & TRADEMARK OFFICE

In Re Patent Application Of:	Michael R. MANZANO)	Attorney Docket No.:	023027-0443281
Serial No.:	14/860,289	)	Confirmation No.:	3426
Filing Date:	September 21, 2015	)	Examiner:	Srirama T. Channavajjala
		)	Art Unit:	2157
For:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK			

PROPOSED AMENDMENTS (SEE NEXT PAGE)

LISTING OF CLAIMS

1. **(Currently Amended)** A system comprising:
 - a first electronic device, associated with a user, configured to:
 - receive, via a first application at the first electronic device, a copy of a modified first electronic file from a second application at a second electronic device associated with the user, wherein the modified first electronic file copy is automatically received from the second application responsive to the user modifying a content of the first electronic file;
 - determine whether the first electronic device is in communication with a third electronic device; [[and]]
 - automatically send, via the first application, the modified first electronic file copy to a third application at the third electronic device responsive to the determination that the first electronic device is in communication with the third electronic device and responsive to receiving the modified first electronic file copy from the second electronic device; [[,]]
 - receive, via the first application, a copy of a modified second electronic file from the third application at the third electronic device associated with the user, wherein the modified second electronic file copy is automatically received from the third application responsive to the user modifying a content of the second electronic file;
 - determine whether the first electronic device is in communication with the second electronic device; and
 - automatically send, via the first application, the modified second electronic file copy to the second application at the second electronic device responsive to the determination that the first electronic device is in communication with the second electronic device and responsive to receiving the modified second electronic file copy from the third electronic device;
 - wherein, responsive to sending the modified first electronic file copy to the third electronic device, an older version of the first electronic file stored on the third electronic device is automatically caused to be replaced with the modified first electronic file copy such that the modified first electronic file copy is stored on the third electronic device in lieu of the older version of the first electronic file, and

wherein, responsive to sending the modified second electronic file copy to the second electronic device, an older version of the second electronic file stored on the second electronic device is automatically caused to be replaced with the modified second electronic file copy such that the modified second electronic file copy is stored on the second electronic device in lieu of the older version of the second electronic file.

2. **(Canceled).**

3. **(Previously Presented)** The system of claim 1, wherein at least one of the second application or the third application comprises a runtime environment for mobile-agent objects.

4. **(Previously Presented)** The system of claim 1, wherein the first electronic device is configured to:

store, via the first application, the modified first electronic file copy to a memory device associated with the first electronic device.

5. **(Original)** The system of claim 4, wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device in lieu of an older version of the first electronic file copy that was stored on the memory device associated with the first electronic device.

6. **(Original)** The system of claim 4, wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device responsive to a determination that the first electronic device is not in communication with the third electronic device.

7. **(Original)** The system of claim 6, wherein the first electronic device is configured to:

responsive to resuming communication with the third electronic device, automatically transfer, via the first application, the modified first electronic file copy to the third electronic device to cause the older version of the first electronic file stored on the third electronic device to be replaced with the modified first electronic file copy.

8. **(Original)** The system of claim 1, wherein the second application is operable to create a first mobile object, and wherein the first mobile object is operable to create a proxy object at the first electronic device.

9. **(Original)** The system of claim 8, wherein the first mobile object is operable to provide the modified first electronic file copy to the proxy object.

10. **(Original)** The system of claim 9, wherein the proxy object is operable to store the modified first electronic file copy on a memory device associated with the first electronic device.

11. **(Currently Amended)** A method comprising:

receiving, via a first application at a first electronic device, a copy of a modified first electronic file from a second application at a second electronic device associated with a user, wherein the modified first electronic file copy is automatically received from the second application responsive to the user modifying a content of the first electronic file;

determining whether the first electronic device is in communication with a third electronic device; [[and]]

automatically sending, via the first application, the modified first electronic file copy to a third application at the third electronic device responsive to the determination that the first electronic device is in communication with the third electronic device and responsive to receiving the modified first electronic file copy from the second electronic device;[[,]]

receiving, via the first application, a copy of a modified second electronic file from the third application at the third electronic device associated with the user, wherein the modified second electronic file copy is automatically received from the third application responsive to the user modifying a content of the second electronic file;

determining whether the first electronic device is in communication with the second electronic device; and

automatically sending, via the first application, the modified second electronic file copy to the second application at the second electronic device responsive to the determination that the first electronic device is in communication with the second electronic device and responsive to receiving the modified second electronic file copy from the third electronic device.

wherein, responsive to sending the modified first electronic file copy to the third electronic device, an older version of the first electronic file stored on the third electronic device is automatically caused to be replaced with the modified first electronic file copy such that the modified first electronic file copy is stored on the third electronic device in lieu of the older version of the first electronic file, and

wherein, responsive to sending the modified second electronic file copy to the second electronic device, an older version of the second electronic file stored on the second electronic device is automatically caused to be replaced with the modified second electronic file copy such that the modified second electronic file copy is stored on the second electronic device in lieu of the older version of the second electronic file.

12. **(Canceled).**

13. **(Previously Presented)** The method of claim 11, wherein at least one of the second application or the third application comprises a runtime environment for mobile-agent objects.

14. **(Previously Presented)** The method of claim 11, further comprising:

storing, via the first application, the modified first electronic file copy to a memory device associated with the first electronic device.

15. **(Original)** The method of claim 14, wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device in lieu of an older version of the first electronic file copy that was stored on the memory device associated with the first electronic device.

16. **(Original)** The method of claim 14, wherein the modified first electronic file copy is stored on the memory device associated with the first electronic device responsive to a determination that the first electronic device is not in communication with the third electronic device.

17. **(Original)** The method of claim 16, further comprising:

responsive to resuming communication with the third electronic device, automatically transferring, via the first application, the modified first electronic file copy to the third electronic device to cause the older version of the first electronic file stored on the third electronic device to be replaced with the modified first electronic file copy.

18. **(Original)** The method of claim 11, wherein the second application is operable to create a first mobile object, and wherein the first mobile object is operable to create a proxy object at the first electronic device.

19. **(Original)** The method of claim 18, wherein the first mobile object is operable to provide the modified first electronic file copy to the proxy object.

20. **(Original)** The method of claim 19, wherein the proxy object is operable to store the modified first electronic file copy on a memory device associated with the first electronic device.

Bibliographic Data

Application No: 14860289

Foreign Priority claimed:

☐ Yes ☒ No

35 USC 119 (a-d) conditions met:

☐ Yes ☒ No

☐ Met After Allowance

Verified and Acknowledged:

/Srirama Channavajjala/

Examiner's Signature

Initials

Title:

ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES
ACROSS DISTRIBUTED NETWORK

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
09/21/2015	707	2157	023027-0443281
RULE			

APPLICANTS

Topia Technology, Inc., Tacoma, WA,

INVENTORS

Michael R. MANZANO, Seattle, WA, UNITED STATES

CONTINUING DATA

This application is a CON of 12267852 11/10/2008 PAT 9143561

12267852 has PRO of 60986896 11/09/2007

FOREIGN APPLICATIONS

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10/01/2015

STATE OR COUNTRY

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McLean, VA 22102

UNITED STATES

FILING FEE RECEIVED

\$730

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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L7	0	(responsive and content and determin\$3 and communication and third and electronic and device\$1 and second and application and first and electronic and device\$1 and user\$1 and receiv\$3 and application\$1 and copy and modif\$4).clm.	USPAT	OR	OFF	2018/03/23 11:28
L8	0	(old and version\$1 and content and determin\$3 and communication and third and electronic and device\$1 and second and application and first and electronic and device\$1 and user\$1 and receiv\$3 and application\$1 and copy and modif\$4).clm.	USPAT	OR	OFF	2018/03/23 11:28
L9	1	(version\$1 and content and determin\$3 and communication and third and electronic and device\$1 and second and application and first and electronic and device\$1 and user\$1 and receiv\$3 and application\$1 and copy and modif\$4).clm.	USPAT	OR	OFF	2018/03/23 11:29
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EAST Search History (Interference)

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L16	1	(stor\$3 and memory and object and agent and mobile and runtime and replac\$3 and version\$1 and content and determin\$3 and communication and third and electronic and device\$1 and second and application and first and electronic and device\$1 and user\$1 and receiv\$3 and application\$1 and copy and modif\$4).clm.	USPAT	OR	OFF	2018/03/23 11:30
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EAST Search History (Prior Art)

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L1	47	(file\$1 and version\$1 and distribut\$4).ti. and @py<="2007"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03
L2	5	L1 AND ((G06F17/30132 OR G06F8/61 OR G06F8/65 OR G06F17/30176 OR G06F17/3023 OR G06F8/71).CPC.) and file\$1 and transfer\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03
L3	3	L1 AND ((G06F17/30132 OR G06F8/61 OR G06F8/65 OR G06F17/30176 OR G06F17/3023 OR G06F8/71).CPC.) and file\$1 and transfer\$4 and (updat\$3 or modif\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03
L17	17	(distribut\$3 and file\$1 and version\$1 and device\$1 and copy).ab. and @py<="2007"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03
L20	9	L19 and (distribut\$3 adj5 file\$1) and @py<="2007"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03

EAST Search History (Prior Art)

L21	18	<p>L19 AND ((G06F11/1464 OR Y10S707/99953 OR H04L67/06 OR Y10S707/99954 OR Y10S707/99955 OR G06F11/1448 OR G06F11/1458 OR G06F11/1461 OR G06F11/1469 OR G06F17/30067 OR G06F3/065 OR G06F8/65 OR H01L2924/00014 OR H04L29/06 OR H04L69/329 OR Y10S707/99952 OR A47F2005/0012 OR A47F5/0006 OR A61B1/00135 OR A61B1/00163 OR A61B1/04 OR A61B1/122 OR A61B1/125 OR A61B1/126 OR A61B1/127 OR A61B1/128 OR B32B15/04 OR B32B2255/02 OR B32B2255/06 OR B32B2255/10 OR B32B2255/12 OR B32B2255/26 OR B32B2307/31 OR B32B2405/00 OR B32B2553/00 OR B32B27/06 OR B32B27/18 OR B32B27/283 OR B32B27/32 OR B32B27/34 OR B32B27/36 OR B32B29/002 OR B32B5/022 OR B32B5/024 OR B32B7/06 OR B32B7/12 OR B65D73/0028 OR B65D75/46 OR G06F11/1435 OR G06F11/1451 OR G06F11/1453 OR G06F11/1662 OR G06F11/2038 OR G06F11/2048 OR G06F11/2094 OR G06F17/30085 OR G06F17/30221 OR G06F17/30861 OR G06F17/3089 OR G06F21/6218 OR G06F21/6227 OR G06F21/6245 OR G06F2201/83 OR G06F2201/84 OR G06F3/0683 OR H01L2224/05599 OR H04L2209/30 OR H04L63/08 OR G06F11/1443 OR G06F11/1456 OR G06F17/2288 OR G06F17/246 OR G06F17/30094 OR G06F17/30115 OR G06F17/30174 OR G06F17/30206 OR G06F17/30209 OR G06F17/30578 OR G06F2206/1008 OR G06F3/0607 OR G06F3/0613 OR G06F8/61 OR G06F9/44526 OR G06F9/44552 OR G06F9/54 OR G06F9/542 OR G06F9/543 OR Y10S707/99945).CPC.) and (file\$1 near5 version\$1)</p>	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03
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EAST Search History (Prior Art)

L22	5	<p>L19 AND ((G06F11/1464 OR Y10S707/99953 OR H04L67/06 OR Y10S707/99954 OR Y10S707/99955 OR G06F11/1448 OR G06F11/1458 OR G06F11/1461 OR G06F11/1469 OR G06F17/30067 OR G06F3/065 OR G06F8/65 OR H01L2924/00014 OR H04L29/06 OR H04L69/329 OR Y10S707/99952 OR A47F2005/0012 OR A47F5/0006 OR A61B1/00135 OR A61B1/00163 OR A61B1/04 OR A61B1/122 OR A61B1/125 OR A61B1/126 OR A61B1/127 OR A61B1/128 OR B32B15/04 OR B32B2255/02 OR B32B2255/06 OR B32B2255/10 OR B32B2255/12 OR B32B2255/26 OR B32B2307/31 OR B32B2405/00 OR B32B2553/00 OR B32B27/06 OR B32B27/18 OR B32B27/283 OR B32B27/32 OR B32B27/34 OR B32B27/36 OR B32B29/002 OR B32B5/022 OR B32B5/024 OR B32B7/06 OR B32B7/12 OR B65D73/0028 OR B65D75/46 OR G06F11/1435 OR G06F11/1451 OR G06F11/1453 OR G06F11/1662 OR G06F11/2038 OR G06F11/2048 OR G06F11/2094 OR G06F17/30085 OR G06F17/30221 OR G06F17/30861 OR G06F17/3089 OR G06F21/6218 OR G06F21/6227 OR G06F21/6245 OR G06F2201/83 OR G06F2201/84 OR G06F3/0683 OR H01L2224/05599 OR H04L2209/30 OR H04L63/08 OR G06F11/1443 OR G06F11/1456 OR G06F17/2288 OR G06F17/246 OR G06F17/30094 OR G06F17/30115 OR G06F17/30174 OR G06F17/30206 OR G06F17/30209 OR G06F17/30578 OR G06F2206/1008 OR G06F3/0607 OR G06F3/0613 OR G06F8/61 OR G06F9/44526 OR G06F9/44552 OR G06F9/54 OR G06F9/542 OR G06F9/543 OR Y10S707/99945).CPC.) and (file\$1 near5 version\$1) and mobile</p>	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03
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EAST Search History (Prior Art)

L23	5	<p>L19 AND ((G06F11/1464 OR Y10S707/99953 OR H04L67/06 OR Y10S707/99954 OR Y10S707/99955 OR G06F11/1448 OR G06F11/1458 OR G06F11/1461 OR G06F11/1469 OR G06F17/30067 OR G06F3/065 OR G06F8/65 OR H01L2924/00014 OR H04L29/06 OR H04L69/329 OR Y10S707/99952 OR A47F2005/0012 OR A47F5/0006 OR A61B1/00135 OR A61B1/00163 OR A61B1/04 OR A61B1/122 OR A61B1/125 OR A61B1/126 OR A61B1/127 OR A61B1/128 OR B32B15/04 OR B32B2255/02 OR B32B2255/06 OR B32B2255/10 OR B32B2255/12 OR B32B2255/26 OR B32B2307/31 OR B32B2405/00 OR B32B2553/00 OR B32B27/06 OR B32B27/18 OR B32B27/283 OR B32B27/32 OR B32B27/34 OR B32B27/36 OR B32B29/002 OR B32B5/022 OR B32B5/024 OR B32B7/06 OR B32B7/12 OR B65D73/0028 OR B65D75/46 OR G06F11/1435 OR G06F11/1451 OR G06F11/1453 OR G06F11/1662 OR G06F11/2038 OR G06F11/2048 OR G06F11/2094 OR G06F17/30085 OR G06F17/30221 OR G06F17/30861 OR G06F17/3089 OR G06F21/6218 OR G06F21/6227 OR G06F21/6245 OR G06F2201/83 OR G06F2201/84 OR G06F3/0683 OR H01L2224/05599 OR H04L2209/30 OR H04L63/08 OR G06F11/1443 OR G06F11/1456 OR G06F17/2288 OR G06F17/246 OR G06F17/30094 OR G06F17/30115 OR G06F17/30174 OR G06F17/30206 OR G06F17/30209 OR G06F17/30578 OR G06F2206/1008 OR G06F3/0607 OR G06F3/0613 OR G06F8/61 OR G06F9/44526 OR G06F9/44552 OR G06F9/54 OR G06F9/542 OR G06F9/543 OR Y10S707/99945).CPC.) and (file\$1 near5 version\$1) and mobile and device\$1</p>	<p>US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB</p>	OR	OFF	2018/03/23 11:03
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EAST Search History (Prior Art)

L24	6	<p>L19 AND ((G06F11/1464 OR Y10S707/99953 OR H04L67/06 OR Y10S707/99954 OR Y10S707/99955 OR G06F11/1448 OR G06F11/1458 OR G06F11/1461 OR G06F11/1469 OR G06F17/30067 OR G06F3/065 OR G06F8/65 OR H01L2924/00014 OR H04L29/06 OR H04L69/329 OR Y10S707/99952 OR A47F2005/0012 OR A47F5/0006 OR A61B1/00135 OR A61B1/00163 OR A61B1/04 OR A61B1/122 OR A61B1/125 OR A61B1/126 OR A61B1/127 OR A61B1/128 OR B32B15/04 OR B32B2255/02 OR B32B2255/06 OR B32B2255/10 OR B32B2255/12 OR B32B2255/26 OR B32B2307/31 OR B32B2405/00 OR B32B2553/00 OR B32B27/06 OR B32B27/18 OR B32B27/283 OR B32B27/32 OR B32B27/34 OR B32B27/36 OR B32B29/002 OR B32B5/022 OR B32B5/024 OR B32B7/06 OR B32B7/12 OR B65D73/0028 OR B65D75/46 OR G06F11/1435 OR G06F11/1451 OR G06F11/1453 OR G06F11/1662 OR G06F11/2038 OR G06F11/2048 OR G06F11/2094 OR G06F17/30085 OR G06F17/30221 OR G06F17/30861 OR G06F17/3089 OR G06F21/6218 OR G06F21/6227 OR G06F21/6245 OR G06F2201/83 OR G06F2201/84 OR G06F3/0683 OR H01L2224/05599 OR H04L2209/30 OR H04L63/08 OR G06F11/1443 OR G06F11/1456 OR G06F17/2288 OR G06F17/246 OR G06F17/30094 OR G06F17/30115 OR G06F17/30174 OR G06F17/30206 OR G06F17/30209 OR G06F17/30578 OR G06F2206/1008 OR G06F3/0607 OR G06F3/0613 OR G06F8/61 OR G06F9/44526 OR G06F9/44552 OR G06F9/54 OR G06F9/542 OR G06F9/543 OR Y10S707/99945).CPC.) and (file\$1 near5 modify\$3)</p>	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03
L27	2	<p>L26 AND ((G06F9/44536 OR G06F17/30194 OR G06F8/665 OR G06F8/68 OR G06F17/30477 OR G06F21/64 OR G06F3/0482 OR G06F3/1208 OR G06F3/122 OR G06F3/124 OR G06F3/1242 OR G06F3/1246 OR G06F3/1247 OR G06F3/1256 OR G06F3/1287 OR G06F3/1288 OR G06F3/1289 OR G06F3/1292 OR G06F3/167).CPC.) and transfer\$4</p>	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03

EAST Search History (Prior Art)

L29	10	(mobile and device\$1 and file\$1 and transfer\$3).ti. and @py<="2007"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03
L30	10	(mobile and device\$1 and file\$1 and transfer\$3 and version\$1).ab. and @py<="2007"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03
L32	66	(distribut\$3 and file\$1 and version\$1 and copy\$3).ab. and @py<="2007"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03
L33	1	L32 AND ((G06F21/10 OR G06Q10/10 OR G06F17/30011 OR G06F17/3023 OR G06F11/1435 OR G06F11/2094 OR G06F11/2097 OR G06F17/30097 OR G06F17/30132 OR G06F17/30191 OR G06F17/30876 OR G06F17/30902 OR G06F21/123 OR G06F21/125 OR G06F2221/2149 OR G06F8/41).CPC.) and older	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03
L34	25	L32 AND ((G06F21/10 OR G06Q10/10 OR G06F17/30011 OR G06F17/3023 OR G06F11/1435 OR G06F11/2094 OR G06F11/2097 OR G06F17/30097 OR G06F17/30132 OR G06F17/30191 OR G06F17/30876 OR G06F17/30902 OR G06F21/123 OR G06F21/125 OR G06F2221/2149 OR G06F8/41).CPC.) and version\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03
L35	2	L32 AND ((G06F21/10 OR G06Q10/10 OR G06F17/30011 OR G06F17/3023 OR G06F11/1435 OR G06F11/2094 OR G06F11/2097 OR G06F17/30097 OR G06F17/30132 OR G06F17/30191 OR G06F17/30876 OR G06F17/30902 OR G06F21/123 OR G06F21/125 OR G06F2221/2149 OR G06F8/41).CPC.) and version\$1 and mobile	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03

EAST Search History (Prior Art)

L36	2	L32 AND ((G06F21/10 OR G06Q10/10 OR G06F17/30011 OR G06F17/3023 OR G06F11/1435 OR G06F11/2094 OR G06F11/2097 OR G06F17/30097 OR G06F17/30132 OR G06F17/30191 OR G06F17/30876 OR G06F17/30902 OR G06F21/123 OR G06F21/125 OR G06F2221/2149 OR G06F8/41).CPC.) and mobile	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03
L37	7	(distribut\$3 and file\$1 and version\$1 and copy\$3).ab. and mobile and @py<="2007"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03
L39	26	L38 and (version\$1 near5 id\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03
L41	1	L39 AND ((G06F1/1632 OR G06F13/409 OR G06F1/1626 OR H04M3/42323 OR G06F21/62 OR G06F3/0482 OR H04M11/06 OR H04M1/725 OR H04M3/42314 OR G06F1/206 OR H04N1/00127 OR H04N1/00236 OR H04N2201/0049 OR G06F1/169 OR G06F1/1656 OR H04M1/2473 OR H01H2223/052 OR G06F3/03541 OR G06F3/03549 OR H04M11/066 OR H04N1/00339 OR H04N1/00392 OR H04N1/00538 OR G06F1/1635 OR G06F3/03543 OR H04L63/10 OR G06F3/0362 OR G06Q30/0601 OR H04N2201/0081 OR H04N2201/0082 OR G06F21/73 OR G06F2221/2129 OR G06F9/445 OR H04N2201/0093 OR G06F3/03545 OR G06F1/1688 OR G06F1/1698 OR G06F2211/007 OR G06F3/0485 OR G06F12/1466 OR G06F13/385 OR G06F1/20 OR G06F21/10 OR G06F21/31 OR G06F21/445 OR G06F21/57 OR G06F21/6218 OR G06F21/79 OR G06F21/82 OR G06F2200/201 OR G06F2211/1097 OR G06F2221/0733 OR G06F2221/0737 OR G06F2221/0759 OR G06F2221/2141 OR G06F3/0213 OR G06F3/0354 OR G06F3/04886 OR G06F3/16 OR G06F8/68). CPC.) and (modify\$3 same file\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:03

EAST Search History (Prior Art)

L42	17	15 and (file\$1 adj5 copy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:11
L43	6	42 AND ((G06F17/30011 OR G06F21/10 OR G06F2221/2135 OR G06Q10/10 OR H04L2463/101 OR H04L29/06 OR H04L63/0428 OR H04L63/0853 OR H04L63/166 OR H04N1/32771 OR H04N1/32776 OR H04N2201/3246 OR G06F17/30174 OR G06F8/654 OR G06F8/658 OR Y10S707/99954 OR G06F11/2064 OR G06F11/2082 OR G06F17/30067 OR H04L67/10 OR H04L67/2819 OR H04L67/2833 OR H04L69/329 OR H04L67/04 OR H04L67/06 OR H04N21/23106 OR H04N21/23116 OR H04N21/2543 OR H04N21/278 OR H04N21/4147 OR H04N21/433 OR H04N21/44209 OR H04N21/4622 OR H04N21/466 OR H04N21/4668 OR H04N21/47202 OR H04N21/4753 OR H04N21/4755 OR H04N21/4782 OR H04N21/4828 OR H04N21/6125 OR H04N21/8355 OR H04N21/8549 OR H04N7/17336 OR Y10S707/99933 OR Y10S707/99938 OR Y10S707/99952 OR Y10S707/99953 OR G06F17/30575 OR G06F17/30902 OR G06F8/71 OR H04L67/1095).CPC.) and (modify\$3 near5 file\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:13
L44	6	18 and (second near5 file)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:15

EAST Search History (Prior Art)

L45	3	1 AND ((G06F8/61 OR G06F17/30132 OR H04L67/34 OR G06F21/10 OR G06F8/65 OR H04L69/329 OR Y10S707/99952 OR G06F11/2064 OR G06F11/2071 OR G06F17/30176 OR G06F17/30194 OR G06F17/3023 OR G06F17/3089 OR G06F21/40 OR G06F21/62 OR G06F2221/0704 OR G06F2221/0744 OR G06F2221/2101 OR G06F2221/2145 OR G06F8/60 OR G06F8/62 OR G06F8/71 OR G06F9/44 OR H04L29/06 OR H04L63/0428 OR H04L63/0435 OR H04L63/0442 OR H04L63/062 OR H04L63/0823 OR H04L63/10 OR H04L67/06 OR H04L67/1095 OR H04L9/3236 OR H04L9/3247 OR H04L9/3255 OR Y10S707/99938 OR Y10S707/99954).CPC.) and (first near5 application)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:17
L46	3	1 AND ((G06F8/61 OR G06F17/30132 OR H04L67/34 OR G06F21/10 OR G06F8/65 OR H04L69/329 OR Y10S707/99952 OR G06F11/2064 OR G06F11/2071 OR G06F17/30176 OR G06F17/30194 OR G06F17/3023 OR G06F17/3089 OR G06F21/40 OR G06F21/62 OR G06F2221/0704 OR G06F2221/0744 OR G06F2221/2101 OR G06F2221/2145 OR G06F8/60 OR G06F8/62 OR G06F8/71 OR G06F9/44 OR H04L29/06 OR H04L63/0428 OR H04L63/0435 OR H04L63/0442 OR H04L63/062 OR H04L63/0823 OR H04L63/10 OR H04L67/06 OR H04L67/1095 OR H04L9/3236 OR H04L9/3247 OR H04L9/3255 OR Y10S707/99938 OR Y10S707/99954).CPC.) and (electronic near5 device\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:17
L47	1	1 AND ((G06F8/61 OR G06F17/30132 OR H04L67/34 OR G06F21/10 OR G06F8/65 OR H04L69/329 OR Y10S707/99952 OR G06F11/2064 OR G06F11/2071 OR G06F17/30176 OR G06F17/30194 OR G06F17/3023 OR G06F17/3089 OR G06F21/40 OR G06F21/62 OR G06F2221/0704 OR G06F2221/0744 OR G06F2221/2101 OR G06F2221/2145 OR G06F8/60 OR G06F8/62 OR G06F8/71 OR G06F9/44 OR H04L29/06 OR H04L63/0428 OR H04L63/0435 OR H04L63/0442 OR H04L63/062 OR H04L63/0823 OR H04L63/10 OR H04L67/06 OR H04L67/1095 OR H04L9/3236 OR H04L9/3247 OR H04L9/3255 OR Y10S707/99938 OR Y10S707/99954).CPC.) and (automatically near5 receiv\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:18

EAST Search History (Prior Art)

L49	5	25 and (multiple near5 device\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:18
L50	26	28 and (multiple near5 device\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:19
L51	14	50 AND ((H04L67/06 OR G07F17/16 OR H04L63/0428 OR H04L63/12 OR H04L67/02 OR H04L67/04 OR H04L67/34 OR H04L69/329 OR G06Q20/1235 OR G06Q20/3552 OR G07F7/1008 OR G11B20/00086 OR G11B20/00195 OR G11B20/00695 OR H04L2463/101 OR H04L29/06 OR H04L29/06027 OR H04L63/0823 OR H04L65/4084 OR H04L67/306 OR H04L67/42 OR H04N21/6131 OR Y10S707/99945 OR Y10S707/99948 OR G06F8/61 OR H04M1/72525 OR H04M2203/052 OR H04M3/42144 OR H04M3/42178 OR H04W88/02 OR G01C15/002 OR G03G15/2017 OR G03G15/2021 OR G03G15/2064 OR G03G21/206 OR G03G2215/00805 OR G03G2215/2016 OR G03G2215/2032 OR G03G8/00 OR G03G9/0827 OR G03G9/0835 OR G06F17/3089 OR G06Q20/322 OR H04L51/38 OR H04L63/08 OR H04L63/0853 OR H04L63/10 OR H04L65/4076 OR H04L65/602 OR H04L65/80 OR H04L67/28 OR H04L67/2842 OR H04L67/289 OR H04L67/36 OR H04M1/72519 OR H04M1/7253 OR H04M1/72544 OR H04M1/72558 OR H04M2250/64 OR H04W12/04 OR H04W4/00 OR H04W4/001 OR H04W4/12 OR H04W56/00 OR H04W80/02 OR H04W84/12).CPC.) and memory	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:20

EAST Search History (Prior Art)

L52	14	50 AND ((H04L67/06 OR G07F17/16 OR H04L63/0428 OR H04L63/12 OR H04L67/02 OR H04L67/04 OR H04L67/34 OR H04L69/329 OR G06Q20/1235 OR G06Q20/3552 OR G07F7/1008 OR G11B20/00086 OR G11B20/00195 OR G11B20/00695 OR H04L2463/101 OR H04L29/06 OR H04L29/06027 OR H04L63/0823 OR H04L65/4084 OR H04L67/306 OR H04L67/42 OR H04N21/6131 OR Y10S707/99945 OR Y10S707/99948 OR G06F8/61 OR H04M1/72525 OR H04M2203/052 OR H04M3/42144 OR H04M3/42178 OR H04W88/02 OR G01C15/002 OR G03G15/2017 OR G03G15/2021 OR G03G15/2064 OR G03G21/206 OR G03G2215/00805 OR G03G2215/2016 OR G03G2215/2032 OR G03G8/00 OR G03G9/0827 OR G03G9/0835 OR G06F17/3089 OR G06Q20/322 OR H04L51/38 OR H04L63/08 OR H04L63/0853 OR H04L63/10 OR H04L65/4076 OR H04L65/602 OR H04L65/80 OR H04L67/28 OR H04L67/2842 OR H04L67/289 OR H04L67/36 OR H04M1/72519 OR H04M1/7253 OR H04M1/72544 OR H04M1/72558 OR H04M2250/64 OR H04W12/04 OR H04W4/00 OR H04W4/001 OR H04W4/12 OR H04W56/00 OR H04W80/02 OR H04W84/12).CPC.) and memory and device\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:21
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EAST Search History (Prior Art)

L53	9	50 AND ((H04L67/06 OR G07F17/16 OR H04L63/0428 OR H04L63/12 OR H04L67/02 OR H04L67/04 OR H04L67/34 OR H04L69/329 OR G06Q20/1235 OR G06Q20/3552 OR G07F7/1008 OR G11B20/00086 OR G11B20/00195 OR G11B20/00695 OR H04L2463/101 OR H04L29/06 OR H04L29/06027 OR H04L63/0823 OR H04L65/4084 OR H04L67/306 OR H04L67/42 OR H04N21/6131 OR Y10S707/99945 OR Y10S707/99948 OR G06F8/61 OR H04M1/72525 OR H04M2203/052 OR H04M3/42144 OR H04M3/42178 OR H04W88/02 OR G01C15/002 OR G03G15/2017 OR G03G15/2021 OR G03G15/2064 OR G03G21/206 OR G03G2215/00805 OR G03G2215/2016 OR G03G2215/2032 OR G03G8/00 OR G03G9/0827 OR G03G9/0835 OR G06F17/3089 OR G06Q20/322 OR H04L51/38 OR H04L63/08 OR H04L63/0853 OR H04L63/10 OR H04L65/4076 OR H04L65/602 OR H04L65/80 OR H04L67/28 OR H04L67/2842 OR H04L67/289 OR H04L67/36 OR H04M1/72519 OR H04M1/7253 OR H04M1/72544 OR H04M1/72558 OR H04M2250/64 OR H04W12/04 OR H04W4/00 OR H04W4/001 OR H04W4/12 OR H04W56/00 OR H04W80/02 OR H04W84/12).CPC.) and memory and device\$1 and copy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:21
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EAST Search History (Prior Art)

L54	9	50 AND ((H04L67/06 OR G07F17/16 OR H04L63/0428 OR H04L63/12 OR H04L67/02 OR H04L67/04 OR H04L67/34 OR H04L69/329 OR G06Q20/1235 OR G06Q20/3552 OR G07F7/1008 OR G11B20/00086 OR G11B20/00195 OR G11B20/00695 OR H04L2463/101 OR H04L29/06 OR H04L29/06027 OR H04L63/0823 OR H04L65/4084 OR H04L67/306 OR H04L67/42 OR H04N21/6131 OR Y10S707/99945 OR Y10S707/99948 OR G06F8/61 OR H04M1/72525 OR H04M2203/052 OR H04M3/42144 OR H04M3/42178 OR H04W88/02 OR G01C15/002 OR G03G15/2017 OR G03G15/2021 OR G03G15/2064 OR G03G21/206 OR G03G2215/00805 OR G03G2215/2016 OR G03G2215/2032 OR G03G8/00 OR G03G9/0827 OR G03G9/0835 OR G06F17/3089 OR G06Q20/322 OR H04L51/38 OR H04L63/08 OR H04L63/0853 OR H04L63/10 OR H04L65/4076 OR H04L65/602 OR H04L65/80 OR H04L67/28 OR H04L67/2842 OR H04L67/289 OR H04L67/36 OR H04M1/72519 OR H04M1/7253 OR H04M1/72544 OR H04M1/72558 OR H04M2250/64 OR H04W12/04 OR H04W4/00 OR H04W4/001 OR H04W4/12 OR H04W56/00 OR H04W80/02 OR H04W84/12).CPC.) and memory and device\$1 and copy and file\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:21
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EAST Search History (Prior Art)

L55	9	50 AND ((H04L67/06 OR G07F17/16 OR H04L63/0428 OR H04L63/12 OR H04L67/02 OR H04L67/04 OR H04L67/34 OR H04L69/329 OR G06Q20/1235 OR G06Q20/3552 OR G07F7/1008 OR G11B20/00086 OR G11B20/00195 OR G11B20/00695 OR H04L2463/101 OR H04L29/06 OR H04L29/06027 OR H04L63/0823 OR H04L65/4084 OR H04L67/306 OR H04L67/42 OR H04N21/6131 OR Y10S707/99945 OR Y10S707/99948 OR G06F8/61 OR H04M1/72525 OR H04M2203/052 OR H04M3/42144 OR H04M3/42178 OR H04W88/02 OR G01C15/002 OR G03G15/2017 OR G03G15/2021 OR G03G15/2064 OR G03G21/206 OR G03G2215/00805 OR G03G2215/2016 OR G03G2215/2032 OR G03G8/00 OR G03G9/0827 OR G03G9/0835 OR G06F17/3089 OR G06Q20/322 OR H04L51/38 OR H04L63/08 OR H04L63/0853 OR H04L63/10 OR H04L65/4076 OR H04L65/602 OR H04L65/80 OR H04L67/28 OR H04L67/2842 OR H04L67/289 OR H04L67/36 OR H04M1/72519 OR H04M1/7253 OR H04M1/72544 OR H04M1/72558 OR H04M2250/64 OR H04W12/04 OR H04W4/00 OR H04W4/001 OR H04W4/12 OR H04W56/00 OR H04W80/02 OR H04W84/12).CPC.) and memory and device\$1 and copy and file\$1 and stor\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:21
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EAST Search History (Prior Art)

L56	9	50 AND ((H04L67/06 OR G07F17/16 OR H04L63/0428 OR H04L63/12 OR H04L67/02 OR H04L67/04 OR H04L67/34 OR H04L69/329 OR G06Q20/1235 OR G06Q20/3552 OR G07F7/1008 OR G11B20/00086 OR G11B20/00195 OR G11B20/00695 OR H04L2463/101 OR H04L29/06 OR H04L29/06027 OR H04L63/0823 OR H04L65/4084 OR H04L67/306 OR H04L67/42 OR H04N21/6131 OR Y10S707/99945 OR Y10S707/99948 OR G06F8/61 OR H04M1/72525 OR H04M2203/052 OR H04M3/42144 OR H04M3/42178 OR H04W88/02 OR G01C15/002 OR G03G15/2017 OR G03G15/2021 OR G03G15/2064 OR G03G21/206 OR G03G2215/00805 OR G03G2215/2016 OR G03G2215/2032 OR G03G8/00 OR G03G9/0827 OR G03G9/0835 OR G06F17/3089 OR G06Q20/322 OR H04L51/38 OR H04L63/08 OR H04L63/0853 OR H04L63/10 OR H04L65/4076 OR H04L65/602 OR H04L65/80 OR H04L67/28 OR H04L67/2842 OR H04L67/289 OR H04L67/36 OR H04M1/72519 OR H04M1/7253 OR H04M1/72544 OR H04M1/72558 OR H04M2250/64 OR H04W12/04 OR H04W4/00 OR H04W4/001 OR H04W4/12 OR H04W56/00 OR H04W80/02 OR H04W84/12).CPC.) and memory and device\$1 and copy and file\$1 and stor\$3 and mobile	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:21
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EAST Search History (Prior Art)

L58	7	50 AND ((H04L67/06 OR G07F17/16 OR H04L63/0428 OR H04L63/12 OR H04L67/02 OR H04L67/04 OR H04L67/34 OR H04L69/329 OR G06Q20/1235 OR G06Q20/3552 OR G07F7/1008 OR G11B20/00086 OR G11B20/00195 OR G11B20/00695 OR H04L2463/101 OR H04L29/06 OR H04L29/06027 OR H04L63/0823 OR H04L65/4084 OR H04L67/306 OR H04L67/42 OR H04N21/6131 OR Y10S707/99945 OR Y10S707/99948 OR G06F8/61 OR H04M1/72525 OR H04M2203/052 OR H04M3/42144 OR H04M3/42178 OR H04W88/02 OR G01C15/002 OR G03G15/2017 OR G03G15/2021 OR G03G15/2064 OR G03G21/206 OR G03G2215/00805 OR G03G2215/2016 OR G03G2215/2032 OR G03G8/00 OR G03G9/0827 OR G03G9/0835 OR G06F17/3089 OR G06Q20/322 OR H04L51/38 OR H04L63/08 OR H04L63/0853 OR H04L63/10 OR H04L65/4076 OR H04L65/602 OR H04L65/80 OR H04L67/28 OR H04L67/2842 OR H04L67/289 OR H04L67/36 OR H04M1/72519 OR H04M1/7253 OR H04M1/72544 OR H04M1/72558 OR H04M2250/64 OR H04W12/04 OR H04W4/00 OR H04W4/001 OR H04W4/12 OR H04W56/00 OR H04W80/02 OR H04W84/12).CPC.) and memory and device\$1 and copy and file\$1 and stor\$3 and mobile and version\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:22
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EAST Search History (Prior Art)

L60	7	50 AND ((H04L67/06 OR G07F17/16 OR H04L63/0428 OR H04L63/12 OR H04L67/02 OR H04L67/04 OR H04L67/34 OR H04L69/329 OR G06Q20/1235 OR G06Q20/3552 OR G07F7/1008 OR G11B20/00086 OR G11B20/00195 OR G11B20/00695 OR H04L2463/101 OR H04L29/06 OR H04L29/06027 OR H04L63/0823 OR H04L65/4084 OR H04L67/306 OR H04L67/42 OR H04N21/6131 OR Y10S707/99945 OR Y10S707/99948 OR G06F8/61 OR H04M1/72525 OR H04M2203/052 OR H04M3/42144 OR H04M3/42178 OR H04W88/02 OR G01C15/002 OR G03G15/2017 OR G03G15/2021 OR G03G15/2064 OR G03G21/206 OR G03G2215/00805 OR G03G2215/2016 OR G03G2215/2032 OR G03G8/00 OR G03G9/0827 OR G03G9/0835 OR G06F17/3089 OR G06Q20/322 OR H04L51/38 OR H04L63/08 OR H04L63/0853 OR H04L63/10 OR H04L65/4076 OR H04L65/602 OR H04L65/80 OR H04L67/28 OR H04L67/2842 OR H04L67/289 OR H04L67/36 OR H04M1/72519 OR H04M1/7253 OR H04M1/72544 OR H04M1/72558 OR H04M2250/64 OR H04W12/04 OR H04W4/00 OR H04W4/001 OR H04W4/12 OR H04W56/00 OR H04W80/02 OR H04W84/12).CPC.) and memory and device\$1 and copy and file\$1 and stor\$3 and mobile and version\$1 and transfer\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/23 11:22
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PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax **(571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

909 7590 04/12/2018
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/860,289	09/21/2015	Michael R. MANZANO	023027-0443281	3426

TITLE OF INVENTION: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0	\$0	\$500	07/12/2018

EXAMINER	ART UNIT	CLASS-SUBCLASS
CHANNAVAJALA, SRIRAMA T	2157	707-204000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 **Pillsbury Winthrop Shaw Pittman LLP**

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

TOPIA TECHNOLOGY

TACOMA, WASHINGTON

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☒ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☒ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number **033975** (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Ngai B. Zhang/

Date July 9, 2018

Typed or printed name Ngai B. Zhang

Registration No. 65,473

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PATENT APPLICATION OF: Michael R. MANZANO
SERIAL NO.: **14/860,289**
ATTORNEY DOCKET NO.: 023027-0443281
FILING DATE: September 21, 2015
CONFIRMATION NO. 3426
ART UNIT: 2157
EXAMINER: Srirama T. CHANNAVAJJALA
FOR: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK

COMMENTS ON EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

Mail Stop Issue Fee

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

Dear Commissioner:

In reply to the Notice of Allowability dated April 12, 2018, consideration of the following comments is respectfully requested.

Applicant respectfully submits that the subject matter of the allowed claims are patentable for their respective recitations of claimed combinations as a whole, without any particular criticality or distinguishing feature being attributable to any one or more of such features, and without any narrowing interpretation being imposed on any of such features. The Applicant respectfully submits that the dependent claims are allowable not only for their dependence on the allowed independent claims, but also for the additional subject matter recited in each of those dependent claims.

Respectfully submitted,
PILLSBURY WINTHROP SHAW PITTMAN LLP

/Ngai B. Zhang/

Ngai B. Zhang
Reg. No. 65,473
Tel. No. (703) 770-7532
Fax No. (703) 770-7901

Date: July 9, 2018
P.O. Box 10500
McLean, VA 22102
(703) 770-7900

Electronic Patent Application Fee Transmittal

Application Number:	14860289			
Filing Date:	21-Sep-2015			
Title of Invention:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK			
First Named Inventor/Applicant Name:	Michael R. MANZANO			
Filer:	Ngai Bing Zhang/Margaret Barham			
Attorney Docket Number:	023027-0443281			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	500	500

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				500

Electronic Acknowledgement Receipt

EFS ID:	33125957
Application Number:	14860289
International Application Number:	
Confirmation Number:	3426
Title of Invention:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	909
Filer:	Ngai Bing Zhang/Margaret Barham
Filer Authorized By:	Ngai Bing Zhang
Attorney Docket Number:	023027-0443281
Receipt Date:	09-JUL-2018
Filing Date:	21-SEP-2015
Time Stamp:	17:16:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 500
RAM confirmation Number	071018INTEFSW00004934033975
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	023027-0443281_Issue_Fee.pdf	1613212	no	1
			064bdab1e8bc78c374ef22bbe29611fbc0f16350		
Warnings:					
Information:					
2	Post Allowance Communication - Incoming	023027-0443281_Comments.pdf	133096	no	1
			16c782a62f23023199819e521d6ed766f6a6621c		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30594	no	2
			ca1cd6681ad5b7105c683edfa76b01bd93c628c0		
Warnings:					
Information:					
Total Files Size (in bytes):			1776902		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/860,289	08/07/2018	10042850	023027-0443281	3426

909 7590 07/18/2018
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 354 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Michael R. MANZANO, Seattle, WA;
Topia Technology, Inc., Tacoma, WA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 08/02/2018

DJACOBS	SALE	#00000007	Mailroom Dt:	07/31/2018	033975	14860289
		01	FC : 2806	120.00	DA	

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL **(Submitted Only via EFS-Web)**

Application Number	14860289	Filing Date	2015-09-21	Docket Number (if applicable)	023027-0443281	Art Unit	2157
First Named Inventor	Michael R. MANZANO			Examiner Name	CHANNAVAJJALA, SRIRAMA T		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
 Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

☐ Other _____

☒ Enclosed

☐ Amendment/Reply

☒ Information Disclosure Statement (IDS)

☐ Affidavit(s)/ Declaration(s)

☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
 (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.
 The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to
 Deposit Account No 033975

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature
 Applicant Signature

Signature of Registered U.S. Patent Practitioner			
Signature	Ngai B. Zhang/	Date (YYYY-MM-DD)	2018-07-31
Name	Ngai B. Zhang	Registration Number	65473

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Privacy Act Statement

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

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

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

Electronic Patent Application Fee Transmittal

Application Number:	14860289			
Filing Date:	21-Sep-2015			
Title of Invention:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK			
First Named Inventor/Applicant Name:	Michael R. MANZANO			
Filer:	Ngai Bing Zhang/Margaret Barham			
Attorney Docket Number:	023027-0443281			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
PETITION FEE-37CFR 1.17(H) (GROUP II)	2464	1	70	70
RCE- 1ST REQUEST	2801	1	650	650
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				720



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Decision Date : July 31, 2018

In re Application of :

Michael MANZANO

DECISION ON PETITION

UNDER CFR 1.313(c)(2)

Application No : 14860289

Filed : 21-Sep-2015

Attorney Docket No : 023027-0443281

This is an electronic decision on the petition under 37 CFR 1.313(c)(2), filed July 31, 2018, to withdraw the above-identified application from issue after payment of the issue fee.

The petition is **GRANTED**.

The above-identified application is withdrawn from issue for consideration of a submission under 37 CFR 1.114 (request for continued examination). See 37 CFR 1.313(c)(2).

Petitioner is advised that the issue fee paid in this application cannot be refunded. If, however, this application is again allowed, petitioner may request that it be applied towards the issue fee required by the new Notice of Allowance.

Telephone inquiries concerning this decision should be directed to the Patent Electronic Business Center (EBC) at 866-217-9197.

This application file is being referred to Technology Center AU 2157 for processing of the request for continuing examination under 37 CFR 1.114.

Office of Petitions

Electronic Acknowledgement Receipt

EFS ID:	33335406
Application Number:	14860289
International Application Number:	
Confirmation Number:	3426
Title of Invention:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	909
Filer:	Ngai Bing Zhang/Margaret Barham
Filer Authorized By:	Ngai Bing Zhang
Attorney Docket Number:	023027-0443281
Receipt Date:	31-JUL-2018
Filing Date:	21-SEP-2015
Time Stamp:	17:15:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 720
RAM confirmation Number	080118INTEFSW00004663033975
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition automatically granted by EFS	petition-request.pdf	31676	no	2
			2251528b67f8cc80df9106d1c6285b5e307e9769		
Warnings:					
Information:					
2	Quick Path Information Disclosure Statement	023027-0443281_QPIDS.pdf	350271	no	2
			e5976fd85d1d645e81a008e55949e300aa6c1038		
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	023027-0443281_PTO-1449.pdf	441088	no	7
			8ca1ee3ddaec7d7141c1e485ac4c0247f22828af		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
4	Non Patent Literature	npl1.pdf	114092	no	1
			7ef5278d7fc6e7f7c3903205a12817be8cbd1725		
Warnings:					
Information:					
5	Non Patent Literature	npl2.pdf	130433	no	1
			40edb70f514526152e8eb027c7bfff23a2e240f29		
Warnings:					
Information:					
6	Non Patent Literature	npl3.pdf	113700	no	1
			0c40967c130e77a788f336fe85397401d44075b2		
Warnings:					

Information:					
7	Non Patent Literature	npl4.pdf	113695	no	1
			59927fb7aaed24c6a5263afc277f26e633e261f		
Warnings:					
Information:					
8	Non Patent Literature	npl5.pdf	113767	no	1
			291e76f26774ff64b029a018627c549ce4af25f6		
Warnings:					
Information:					
9	Non Patent Literature	npl6.pdf	113301	no	1
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Total Files Size (in bytes):	5772022
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Doc Code: PET.AUTO Document Description: Petition automatically granted by EFS-Web		PTO/SB/140 U.S. Patent and Trademark Office Department of Commerce
Electronic Petition Request	PETITION TO WITHDRAW AN APPLICATION FROM ISSUE AFTER PAYMENT OF THE ISSUE FEE UNDER 37 CFR 1.313(c)	
Application Number	14860289	
Filing Date	21-Sep-2015	
First Named Inventor	Michael MANZANO	
Art Unit	2157	
Examiner Name	SRIRAMA CHANNAVAJALA	
Attorney Docket Number	023027-0443281	
Title	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK	
<p>An application may be withdrawn from issue for further action upon petition by the applicant. To request that the Office withdraw an application from issue, applicant must file a petition under this section including the fee set forth in § 1.17(h) and a showing of good and sufficient reasons why withdrawal of the application from issue is necessary.</p> <p>APPLICANT HEREBY PETITIONS TO WITHDRAW THIS APPLICATION FROM ISSUE UNDER 37 CFR 1.313(c).</p> <p>A grantable petition requires the following items:</p> <p>(1) Petition fee; and</p> <p>(2) One of the following reasons:</p> <p>(a) Unpatentability of one or more claims, which must be accompanied by an unequivocal statement that one or more claims are unpatentable, an amendment to such claim or claims, and an explanation as to how the amendment causes such claim or claims to be patentable;</p> <p>(b) Consideration of a request for continued examination in compliance with § 1.114 (for a utility or plant application only); or</p> <p>(c) Express abandonment of the application. Such express abandonment may be in favor of a continuing application, but not a CPA under 37 CFR 1.53(d).</p>		
Petition Fee		
<div style="border: 1px solid black; padding: 5px;"> <input checked="" type="radio"/> Small Entity </div>		
<div style="border: 1px solid black; padding: 5px;"> <input type="radio"/> Micro Entity </div>		
<div style="border: 1px solid black; padding: 5px;"> <input type="radio"/> Regular Undiscounted </div>		
Reason for withdrawal from issue		

- ☐ One or more claims are unpatentable
- ☒ Consideration of a request for continued examination (RCE) (List of Required Documents and Fees)
- ☐ Applicant hereby expressly abandons the instant application (any attorney/agent signing for this reason must have power of attorney pursuant to 37 CFR 1.32(b)).

RCE request, submission, and fee.

- ☐ I certify, in accordance with 37 CFR 1.4(d)(4) that :
- ☐ The RCE request ,submission, and fee have already been filed in the above-identified application on
- ☒ Are attached.

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

- ☒ An attorney or agent registered to practice before the Patent and Trademark Office who has been given power of attorney in this application.
- ☐ An attorney or agent registered to practice before the Patent and Trademark Office, acting in a representative capacity.
- ☐ A sole inventor
- ☐ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application
- ☐ A joint inventor; all of whom are signing this e-petition

Signature	/Ngai B. Zhang/
Name	/Ngai B. Zhang/
Registration Number	65473

FORM PTO-1449 (modified) To: U.S. Department of Commerce (PW FORM PAT-1449) Patent and Trademark Office				Atty. Dkt. No.	M#			
				023027	0443281			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Inventor(s):				
				Appln. No.: 14/860,289				
				Filing Date: September 21, 2015				
				Examiner: Srirama T. CHANNAVAJJALA		Group Art Unit: 2157		
Date: July 31, 2018 Page 1 of 7								
U.S. PATENT DOCUMENTS								
Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)	
		AR 6,463,463	10/2002	GODFREY et al.				
		BR 6,504,994	01/2003	KAWAMURA et al.				
		CR 6,505,200	01/2003	IMS et al.				
		DR 6,611,849	08/2003	RAFF et al.				
		ER 6,671,700	12/2003	CREEMER et al.				
		FR 6,708,221	03/2004	MENDEZ et al.				
		GR 6,757,696	06/2004	MULTER et al.				
		HR 6,760,759	07/2004	CHAN				
		IR 6,810,405	10/2004	LARUE et al.				
		JR 6,829,622	12/2004	BEYDA				
		KR 6,874,037	03/2005	ABRAM et al.				
		LR 6,931,454	08/2005	DESHPANDE et al.				
		MR 6,990,522	01/2006	WU				
		NR 7,024,428	04/2006	HUANG et al.				
		OR 7,054,594	05/2006	BLOCH et al.				
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		Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		
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	PR							
OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)								
	QR							
	RR							
	SR							
	TR							
Examiner					Date Considered:			
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Dkt. No.

M#

023027

0443281

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: 14/860,289

Filing Date: September 21, 2015

Date: July 31, 2018

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of

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Examiner: Srirama T. CHANNAVAJJALA

Group Art Unit: 2157

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	UR 7,065,658	06/2006	BARABAN et al.			
	VR 7,089,307	08/2006	ZINTEL et al.			
	WR 7,155,488	12/2006	LUNSFORD et al.			
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	BBF 7,398,327	07/2008	LEE			
	CCF 7,415,615	08/2008	SKYGEBJER			
	DDF 7,457,631	11/2008	YACH et al.			
	EEF 7,467,353	12/2008	KURLANDER et al.			
	FFR 7,483,925	01/2009	KOSKIMIES et al.			
	GGI 7,526,575	04/2009	RABBERS et al.			
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	IIR 7,584,186	09/2009	CHEN et al.			

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KKF					
LLR					
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NNF					

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				023027	0443281		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Inventor(s): Michael R. MANZANO			
				Appln. No.: 14/860,289			
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				Examiner: Srirama T. CHANNAVAJJALA			
Date: July 31, 2018 Page 3 of 7				Group Art Unit: 2157			
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		OOI 7,587,446	09/2009	ONYON et al.			
		PPF 7,613,773	11/2009	WATT			
		QQI 7,639,116	12/2009	SAUNDERS			
		RRF 7,657,271	02/2010	KIM			
		SSF 7,680,885	03/2010	SCHAUSER et al.			
		TTF 7,752,166	07/2010	QUINLAN et al.			
		UUF 7,761,414	07/2010	FREEDMAN			
		VVF 7,895,334	02/2011	TU et al.			
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		ZZF 8,244,288	08/2012	CHIPCHASE			
		AAI 8,321,534	11/2012	ROSKIND et al.			
		BBF 8,370,423	02/2013	OZZIE et al.			
		CCF 8,386,558	02/2013	SCHLEIFER et al.			
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		FFF					
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0443281

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: 14/860,289

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Examiner: Srirama T. CHANNAVAJALA Group Art Unit: 2157

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	JJJ	2003/0125057	07/2003	PESOLA		
	KKK	2003/0135565	07/2003	ESTRADA		
	LLL	2004/0049345	03/2004	MCDONOUGH et al.		
	MM	2005/0097225	05/2005	GLATT et al.		
	NN	2005/0220080	10/2005	RONKAINEN et al.		
	OO	2006/0058907	03/2006	SUDERMAN		
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				Appln. No.: 14/860,289			
				Filing Date: September 21, 2015			
				Examiner: Srirama T. CHANNAVAJALA Group Art Unit: 2157			
Date: July 31, 2018				Page	5	of	7
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	GGG	FolderShare; Your Files Anywhere; < https://web.archive.org/web/20030808183932/http://www.foldershare.com:80/ >; August 8, 2003.					
	HHH	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040814015727/http://www.foldershare.com:80/ >; August 14, 2004.					
	IIII	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040820052105/http://www.foldershare.com:80/ >; August 20, 2004.					
	JJJ	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041211020957/http://foldershare.com:80/ >; December 11, 2004.					
	KKK	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041217041726/http://foldershare.com:80/ >; December 17, 2004.					
	LLL	FolderShare; Your Smart File Transfer Solution; < https://web.archive.org/web/20031220151508/http://www.foldershare.com:80/ >; December 20, 2003.					
	MMM	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041230211050/http://www.foldershare.com:80/ >; December 30, 2004.					
	NNN	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040701113739/http://foldershare.com:80/ >; July 1, 2004.					
	OOO	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040711062548/http://www.foldershare.com:80/ >; July 11, 2004.					
Examiner					Date Considered:		
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Inventor(s): Michael R. MANZANO			
		Appln. No.: 14/860,289			
		Filing Date: September 21, 2015			
		Examiner: Srirama T. CHANNAVAJALA		Group Art Unit: 2157	
Date: July 31, 2018		Page	6	of	7

U.S. PATENT DOCUMENTS						
Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
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	QQQ					
	RRR					

FOREIGN PATENT DOCUMENTS					English Abstract		Translation Readily Available	
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	UUU	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040730030655/http://www.foldershare.com:80/ >; July 30, 2004.						
	VVV	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040603205113/http://www.foldershare.com:80/ >; June 3, 2004.						
	WWW	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040613161906/http://www.foldershare.com:80/ >; June 13, 2004.						
	XXX	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040629075057/http://www.foldershare.com:80/ >; June 29, 2004.						
	YYY	FolderShare - Secure Remote Access VPN Solution; Your Smart File Transfer & Real-time File Mirroring Solution; < https://web.archive.org/web/20040316235151/http://foldershare.com:80/ >; March 16, 2004.						
	ZZZ	FolderShare - Secure Remote Access VPN Solution; Your Smart File Transfer & Real-time File Mirroring Solution; < https://web.archive.org/web/20040325034239/http://www.foldershare.com:80/ >; March 25, 2004.						
	AAA	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040512211417/http://www.foldershare.com:80/ >; May 12, 2004.						
	BBB	FolderShare; Your Files Anywhere; < https://web.archive.org/web/20030531180252/http://www.foldershare.com:80/ >; May 31, 2003.						
	CCC	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041104031510/http://www.foldershare.com:80/ >; November 4, 2004.						

Examiner	Date Considered:
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Inventor(s): Michael R. MANZANO

Appln. No.: 14/860,289

Filing Date: September 21, 2015

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Examiner: Srirama T. CHANNAVAJALA

Group Art Unit: 2157

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
EEE				Enclosed	No

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FFF	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041117092357/http://www.foldershare.com:80/ >; November 17, 2004.				
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OOO	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040924032146/http://www.foldershare.com:80/ >; September 24, 2004.				

Examiner

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/860,289	09/21/2015	Michael R. MANZANO	023027-0443281	3426
909	7590	08/08/2018	EXAMINER	
Pillsbury Winthrop Shaw Pittman, LLP			CHANNAVAJJALA, SRIRAMA T	
PO Box 10500			ART UNIT	PAPER NUMBER
McLean, VIRGINIA 22102			2157	
UNITED STATES OF AMERICA			NOTIFICATION DATE	DELIVERY MODE
			08/08/2018	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket_ip@pillsburylaw.com

***Corrected
Notice of Allowability***

Application No.
14/860,289

Applicant(s)
MANZANO, Michael R.

Examiner
Srirama T Channavajjala

Art Unit
2157

AIA Status
No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/31/2018.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are See Continuation Sheet. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov**.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some *c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file areply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 7/31/2018.

3. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material _____.

4. ☐ Interview Summary (PTO-413),
Paper No./Mail Date. _____.

5. ☐ Examiner's Amendment/Comment

6. ☐ Examiner's Statement of Reasons for Allowance

7. ☐ Other _____.

/Srirama Channavajjala/
Primary Examiner, Art Unit 2157

Continuation of 3. The allowed claim(s) is/are: 1,3-11 and 13-20 (re-numbered: 1-18)

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0443281

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Inventor(s):

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Filing Date: September 21, 2015

Date: July 31, 2018

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Examiner: Srirama T. CHANNAVAJJALA

Group Art Unit: 2157

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Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR	6,463,463	10/2002	GODFREY et al.		
	BR	6,504,994	01/2003	KAWAMURA et al.		
	CR	6,505,200	01/2003	IMS et al.		
	DR	6,611,849	08/2003	RAFF et al.		
	ER	6,671,700	12/2003	CREEMER et al.		
	FR	6,708,221	03/2004	MENDEZ et al.		
	GR	6,757,696	06/2004	MULTER et al.		
	HR	6,760,759	07/2004	CHAN		
	IR	6,810,405	10/2004	LARUE et al.		
	JR	6,829,622	12/2004	BEYDA		
	KR	6,874,037	03/2005	ABRAM et al.		
	LR	6,931,454	08/2005	DESHPANDE et al.		
	MR	6,990,522	01/2006	WU		
	NR	7,024,428	04/2006	HUANG et al.		
	OR	7,054,594	05/2006	BLOCH et al.		

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Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
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QR			
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SR			
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Date Considered: 08/02/2018

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	UR	7,065,658	06/2006	BARABAN et al.		
	VR	7,089,307	08/2006	ZINTEL et al.		
	WR	7,155,488	12/2006	LUNSFORD et al.		
	XR	7,243,163	07/2007	FRIEND et al.		
	YR	7,269,433	09/2007	VARGAS et al.		
	ZR	7,290,244	10/2007	PECK et al.		
	AAF	7,340,534	03/2008	CAMERON et al.		
	BBF	7,398,327	07/2008	LEE		
	CCF	7,415,615	08/2008	SKYGEBJER		
	DDF	7,457,631	11/2008	YACH et al.		
	EEF	7,467,353	12/2008	KURLANDER et al.		
	FFR	7,483,925	01/2009	KOSKIMIES et al.		
	GGI	7,526,575	04/2009	RABBERS et al.		
	HHF	7,574,711	08/2009	ZONDERVAN et al.		
	IIR	7,584,186	09/2009	CHEN et al.		

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LLR			
MM			
NNF			

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	OOI 7,587,446	09/2009	ONYON et al.			
	PPF 7,613,773	11/2009	WATT			
	QQI 7,639,116	12/2009	SAUNDERS			
	RRF 7,657,271	02/2010	KIM			
	SSF 7,680,885	03/2010	SCHAUSER et al.			
	TTF 7,752,166	07/2010	QUINLAN et al.			
	UUF 7,761,414	07/2010	FREEDMAN			
	VVF 7,895,334	02/2011	TU et al.			
	WWI 7,987,420	07/2011	KLOBA et al.			
	XXF 8,009,966	08/2011	BLOOM et al.			
	YYF 8,112,549	02/2012	SRINIVASAN et al.			
	ZZF 8,244,288	08/2012	CHIPCHASE			
	AAI 8,321,534	11/2012	ROSKIND et al.			
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	CCF 8,386,558	02/2013	SCHLEIFER et al.			

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	IIIR	2003/0038842	02/2003	PECK et al.		
	JJJ	2003/0125057	07/2003	PESOLA		
	KKK	2003/0135565	07/2003	ESTRADA		
	LLL	2004/0049345	03/2004	MCDONOUGH et al.		
	MM	2005/0097225	05/2005	GLATT et al.		
	NN	2005/0220080	10/2005	RONKAINEN et al.		
	OO	2006/0058907	03/2006	SUDERMAN		
	PP	2006/0189348	08/2006	MONTULLI et al.		
	QQ	2007/0014314	01/2007	O'NEIL		
	RR	2007/0191057	08/2007	KAMADA		
	SS	2007/0238440	10/2007	SENGUPTA et al.		
	TT	2008/0005280	01/2008	ADAMS		
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OOO	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040711062548/http://www.foldershare.com:80/ ; July 11, 2004.				

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Examiner: Srirama T. CHANNAVAJJALA

Group Art Unit: 2157

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UUU	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040730030655/http://www.foldershare.com:80/ >; July 30, 2004.				
VVV	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040603205113/http://www.foldershare.com:80/ >; June 3, 2004.				
WWW	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040613161906/http://www.foldershare.com:80/ >; June 13, 2004.				
XXX	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040629075057/http://www.foldershare.com:80/ >; June 29, 2004.				
YYY	FolderShare - Secure Remote Access VPN Solution; Your Smart File Transfer & Real-time File Mirroring Solution; < https://web.archive.org/web/20040316235151/http://foldershare.com:80/ >; March 16, 2004.				
ZZZ	FolderShare - Secure Remote Access VPN Solution; Your Smart File Transfer & Real-time File Mirroring Solution; < https://web.archive.org/web/20040325034239/http://www.foldershare.com:80/ >; March 25, 2004.				
AAA	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040512211417/http://www.foldershare.com:80/ >; May 12, 2004.				
BBB	FolderShare; Your Files Anywhere; < https://web.archive.org/web/20030531180252/http://www.foldershare.com:80/ >; May 31, 2003.				
CCC	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041104031510/http://www.foldershare.com:80/ >; November 4, 2004.				

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OOO	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040924032146/http://www.foldershare.com:80/ >; September 24, 2004.				

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/860,289	09/04/2018	10067942	023027-0443281	3426

909 7590 08/21/2018
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 345 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Michael R. MANZANO, Seattle, WA;
Topia Technology, Inc., Tacoma, WA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

Electronic Acknowledgement Receipt

EFS ID:	33335406
Application Number:	14860289
International Application Number:	
Confirmation Number:	3426
Title of Invention:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	909
Filer:	Ngai Bing Zhang/Margaret Barham
Filer Authorized By:	Ngai Bing Zhang
Attorney Docket Number:	023027-0443281
Receipt Date:	31-JUL-2018
Filing Date:	21-SEP-2015
Time Stamp:	17:15:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$720
RAM confirmation Number	080118INTEFSW00004663033975
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

United States Patent and Trademark Office

- Sales Receipt -

Adjustment date: 03/22/2019 SDIRETA1

08/01/2018 INTEFSW 00004663 033975 14860289

02 FC:2801 650.00 CR

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7054760

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	JOHN C. HAAGER	11/15/2021
RECEIVING PARTY DATA		
Name:	TOPIA TECHNOLOGY, INC.	
Street Address:	1927 DOCK STREET	
City:	TACOMA	
State/Country:	WASHINGTON	
Postal Code:	98402	
PROPERTY NUMBERS Total: 6		
Property Type	Number	
Patent Number:	9143561	
Patent Number:	10067942	
Patent Number:	10289607	
Patent Number:	10642787	
Patent Number:	10754823	
Patent Number:	11003622	
CORRESPONDENCE DATA		
Fax Number:	(202)293-7860	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
Phone:	2022937060	
Email:	mcabrera@sughrue.com	
Correspondent Name:	SUGHRUE MION PLLC	
Address Line 1:	2000 PENNSYLVANIA AVENUE NW	
Address Line 2:	SUITE 900	
Address Line 4:	WASHINGTON, D.C. 20006	
ATTORNEY DOCKET NUMBER:	030221	
NAME OF SUBMITTER:	MILLY CABRERA	
SIGNATURE:	/Milly Cabrera/	
DATE SIGNED:	12/03/2021	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 6

source=9,143,561_Executed Assignment#page1.tif
source=10,067,942_Executed Assignment#page1.tif
source=10,289,607_Executed Assignment#page1.tif
source=10,642,787_Executed Assignment#page1.tif
source=10,754,823_Executed Assignment#page1.tif
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Assignment

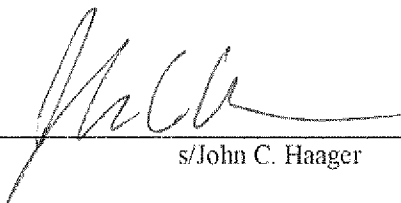
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK and executed an application for Letters Patent of the United States of America therefor; (Application number 12/267,852 (now U.S. Patent 9,143,561)) and Confirmation number 7024, filed November 10, 2008); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:

 11/15/2021

s/John C. Haager

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

Assignment

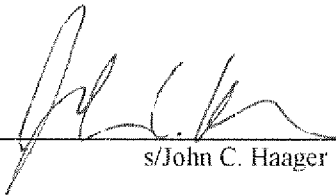
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK and executed an application for Letters Patent of the United States of America therefor; (Application number 14/860,289 (now U.S. Patent 10,067,942)) and Confirmation number 3426, filed September 21, 2015); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:

 11/15/2021

s/John C. Haager

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

Assignment

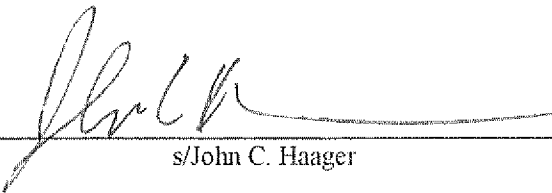
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK and executed an application for Letters Patent of the United States of America therefor; (Application number 16/017,348 (now U.S. Patent 10,289,607)) and Confirmation number 3719, filed June 25, 2018); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:

 11/15/2021

s/John C. Haager

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

Assignment

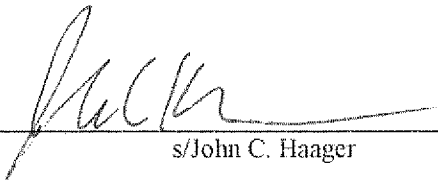
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA and executed an application for Letters Patent of the United States of America therefor; (Application number 16/750,399 (now U.S. Patent 10,642,787)) and Confirmation number 9316, filed January 23, 2020); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:

 11/15/2021

s/John C. Haager

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

Assignment

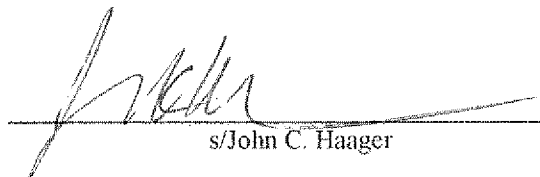
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITIZED METADATA and executed an application for Letters Patent of the United States of America therefor; (Application number 16/750,435 (now U.S. Patent 10,754,823)) and Confirmation number 2793, filed January 23, 2020); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:

 11/15/2021
s/John C. Haager

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

Assignment

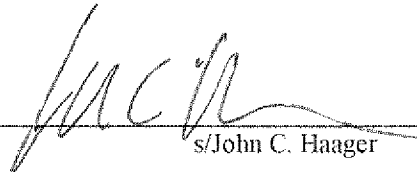
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK and executed an application for Letters Patent of the United States of America therefor; (Application number 16/361,641 (now U.S. Patent 11,003,622)) and Confirmation number 7093, filed March 22, 2019); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:


s/John C. Haager

11/15/2021

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: 030721

Michael R. Manzano

Group Art Unit: 2157

Appln. No.: 14/860,289

Examiner: CHANNAVAJJALA,
SRIRAMA T.

Confirmation No.: 3426

Patent No.: 10,067,942

Filed: September 21, 2015

Issue Date: September 4, 2018

For: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS
DISTRIBUTED NETWORK

**PETITION UNDER 37 C.F.R. § 1.324 TO CORRECT INVENTORSHIP IN PATENT TO
ADD INVENTOR(S), PURSUANT TO 35 U.S.C. § 256**

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

Sir:

The undersigned, on behalf of the Inventors and the Assignee, petitions the Director in accordance with 37 C.F.R. § 1.324(a) to correct inventorship of the above-identified patent by adding the names of John C. Haager as co-inventor.

REMARKS

In accordance with 37 C.F.R. § 1.324(b), submitted herewith are the following:

(1) A statement from each person who is being added as an inventor and each person who is currently named as an inventor either agreeing to the change of inventorship or stating that he or she has no disagreement in regard to the requested change;

(2) A statement from all assignees of the parties submitting a statement under paragraph
(b)(1) of this section agreeing to the change of inventorship in the patent, which statement must
comply with the requirements of § 3.73(c) of this chapter; and

(3) The fee set forth in § 1.20(b).

The processing fee of \$160.00 set forth in 37 C.F.R. § 1.20(b) is being remitted.

The USPTO is directed and authorized to charge the processing fee of \$160.00 and all
required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880.

Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

/Andrew J. Taska/

Andrew J. Taska
Registration No. 54,666

SUGHRUE MION, PLLC
Telephone: 202.293.7060
Facsimile: 202.293.7860

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: December 17, 2021

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in the attached transmittal letter.

I hereby appoint:

Andrew J. Taska, Registration No. 54,666, and
John M. Bird, Registration No. 46,027

as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (Form PTO/AIA/82A).

Please recognize or change the correspondence address for the application identified in the attached transmittal letter to:

The address associated with the above-mentioned Customer Number.


I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

TOPIA TECHNOLOGY, INC.

- ☐ Inventor or Joint Inventor (title not required below)
- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- ☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- ☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a Petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document)(provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature		Date (Optional)	12/16/21
Name	Janine Terrano		
Title	CEO of TOPIA TECHNOLOGY, INC.		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☒ Total of 1 forms are submitted.

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: 030721

Michael R. Manzano

Group Art Unit: 2157

Appln. No.: 14/860,289

Examiner: CHANNAVAJALA,
SRIRAMA T.

Confirmation No.: 3426

Patent No.: 10,067,942

Filed: September 21, 2015

Issue Date: September 4, 2018

For: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS
DISTRIBUTED NETWORK

**STATEMENT OF ASSIGNEE OF RIGHTS FROM ALL ASSIGNEES OF PARTIES
SUBMITTING A STATEMENT UNDER (1) & (2) IN SUPPORT OF PETITION UNDER
37 C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT**

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

Sir:

The undersigned, a representative of TOPIA TECHNOLOGY, INC., represents that TOPIA TECHNOLOGY, INC., is the owner of the entire right, title and interest of Application No. 14/860,289, (now United States Patent 10,067,942), filed on September 21, 2015 for ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK by virtue of an Assignment from all of the currently named inventors thereof recorded on September 23, 2015 at Reel 036630 and Frame 0308 and by virtue of an Assignment from the inventor to be added, which is submitted herewith.

The undersigned hereby certifies that the above-mentioned Assignments have been reviewed and to the best of the undersigned's knowledge and belief, title is in who is seeking to take this action.

The undersigned (whose title is supplied below) is empowered to sign this consent statement on behalf of the assignee.

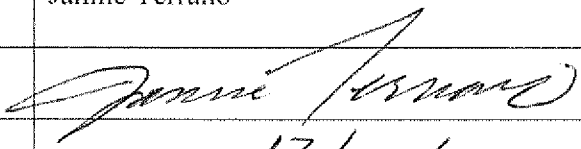
STATEMENT OF ASSIGNEE OF RIGHTS FROM ALL ASSIGNEES OF PARTIES
SUBMITTING A STATEMENT UNDER (1) & (2) IN SUPPORT OF PETITION
UNDER 37 C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT

Attorney Docket No.: 030721

Appln.No.: 14/860,289

Patent No.: 10,067,642

Janine Terrano, CEO of TOPIA TECHNOLOGY, INC., on behalf of TOPIA
TECHNOLOGY, INC., hereby agrees to the correction of inventorship in connection with the
above-identified patent whereby the name of John C. Haager is added as a coinventor.

Name	Janine Terrano	Title	CEO
Signature			
Date	12/26/21		

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: 030721

Michael R. Manzano

Group Art Unit: 2157

Appln. No.: 14/860,289

Examiner: CHANNAVAJJALA,
SRIRAMA T.

Confirmation No.: 3426

Patent No.: 10,067,942

Filed: September 21, 2015

Issue Date: September 4, 2018

For: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS
DISTRIBUTED NETWORK

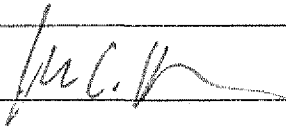
**STATEMENT FROM ADDED INVENTOR IN SUPPORT OF PETITION UNDER 37
C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT**

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

Sir:

I, John C. Haager, the inventor being added to the above-identified patent, hereby declare that I have no disagreement in regard to the requested change in inventors.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief is believed to be true; and further that these statements were made with the knowledge that willful statements and the like so made are punishable by fine or imprisonment or both under 18 USC §1001, and may jeopardize the validity of the application or any patent issuing thereon.

Name of Added Inventor	John C. Haager
Signature	
Date	11/15/2021

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: 030721

Michael R. Manzano

Group Art Unit: 2157

Appln. No.: 14/860,289

Examiner: CHANNAVAJALA, SRIRAMA
T.

Confirmation No.: 3426

Patent No.: 10,067,942

Filed: September 21, 2015

Issue Date: September 4, 2018

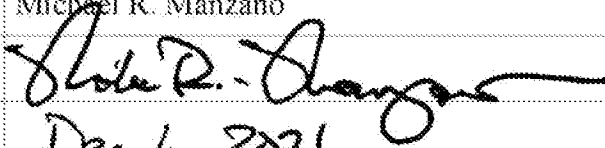
For: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS
DISTRIBUTED NETWORK

**STATEMENT FROM CURRENT NAMED INVENTOR, WHO IS NOT A PERSON
BEING ADDED AS AN INVENTOR, IN SUPPORT OF PETITION UNDER 37
C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT**

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

Sir:

I, Michael R. Manzano, the current named inventor, of the above-identified patent who is not a person being added as an inventor do hereby declare that I have no disagreement in regard to the requested change in inventors.

Name of Inventor	Michael R. Manzano
Signature	
Date	Dec 6, 2021

Electronic Patent Application Fee Transmittal

Application Number:	14860289			
Filing Date:	21-Sep-2015			
Title of Invention:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK			
First Named Inventor/Applicant Name:	Michael R. MANZANO			
Filer:	Andrew Joseph Taska/Mildred Cabrera			
Attorney Docket Number:	023027-0443281			
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
PROCESSING FEE CORRECTING INVENTORSHIP	1816	1	160	160

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				160

Electronic Acknowledgement Receipt

EFS ID:	44551448
Application Number:	14860289
International Application Number:	
Confirmation Number:	3426
Title of Invention:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	909
Filer:	Andrew Joseph Taska/Mildred Cabrera
Filer Authorized By:	Andrew Joseph Taska
Attorney Docket Number:	023027-0443281
Receipt Date:	17-DEC-2021
Filing Date:	21-SEP-2015
Time Stamp:	16:26:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 160
RAM confirmation Number	E2021BGG26590547
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request under Rule 48 correcting inventorship	030721PetitiontoCorrectInventorshipofPatentunder132410067942.pdf	85943	no	2
			fe8ddcdcdada4d98863eb8dcb819be5c4ccd2cad		
Warnings:					
Information:					
2	Power of Attorney	Executed_Power_of_Attorney.pdf	47433	no	1
			99e8f81a2d47f4fbe4d4cfef6f75b9f490567a0a		
Warnings:					
Information:					
3	Request under Rule 48 correcting inventorship	STATEMENT_OF_ASSIGNEE.pdf	60822	no	2
			7a0c94a4231412b0c699b90dfd4a05186a22fdfd		
Warnings:					
Information:					
4	Request under Rule 48 correcting inventorship	STATEMENT_FROM_ADDED_INVENTOR.pdf	120216	no	1
			b90e6bf3e5240b49436f092ec49010d6f5bed46fb		
Warnings:					
Information:					
5	Request under Rule 48 correcting inventorship	STATEMENT_FROM_CURRENT_INVENTOR.pdf	383141	no	1
			48a8462f39a11fa64d9addaeea92bf5261c5af13		
Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	38516	no	2
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Warnings:					
Information:					

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/860,289	09/21/2015	Michael R. MANZANO	023027-0443281

909
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

CONFIRMATION NO. 3426
IMPROPER CPOA LETTER



Date Mailed: 12/21/2021

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the power of attorney filed 12/17/2021. The power of attorney in this application is not accepted for the reason(s) listed below:

- The power of attorney you provided did not comply with the power of attorney rules that became effective on June 25, 2004. See 37 CFR 1.32 and 69 Fed. Reg. 29865.

/ttran/

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

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

**CHANGE OF
CORRESPONDENCE ADDRESS
Patent**Address to:
Mail Stop Post Issue
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Patent Number	10,067,942
Issue Date	September 4, 2018
Application Number	14/860,289
Filing Date	September 21, 2015
First Named Inventor	Michael R. Manzano
Attorney Docket Number	030721

Please change the Correspondence Address for the above-identified patent to:



The address associated with Customer Number:

23373**OR****Firm or
Individual Name****Address****City****State****ZIP****Country****Telephone****Email**

This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).

This form will not affect any "fee address" provided for the above-identified patent. To change a "fee address" use the "Fee Address Indication Form" (PTO/SB/47).

I am the:



Patentee.

Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).Attorney or agent of record. Registration Number **54,666**.

Signature

/ Andrew J. Taska /

Typed or
Printed Name

Andrew J. Taska

Date

December 22, 2021

Telephone **202-293-7060...**

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.



*Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop Post Issue, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Box & Dropbox Exhibit 1008

Page 288

Privacy Act Statement

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

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

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

Electronic Acknowledgement Receipt

EFS ID:	44588601
Application Number:	14860289
International Application Number:	
Confirmation Number:	3426
Title of Invention:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	909
Filer:	Andrew Joseph Taska/Mildred Cabrera
Filer Authorized By:	Andrew Joseph Taska
Attorney Docket Number:	023027-0443281
Receipt Date:	22-DEC-2021
Filing Date:	21-SEP-2015
Time Stamp:	13:42:10
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Change of Address	030721ChangeofAddress10067942.pdf	107914 b4ed7917d183789960473f614ae2553e24b662bb	no	2

Warnings:

Box & Dropbox Exhibit 1008

Information:	
Total Files Size (in bytes):	107914
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/860,289	09/21/2015	Michael R. MANZANO	023027-0443281

00909
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

CONFIRMATION NO. 3426
IMPROPER REQUEST LETTER



Date Mailed: 12/29/2021

RESPONSE TO REQUEST BY A PERSON NOT AUTHORIZED TO SUBMIT REQUEST

The Change of Correspondence Address submitted on 12/22/2021 for this application will not be treated because the person making the request is not authorized to make this change and is not listed in the application as an attorney or agent of record. In order for correspondence to be entered into the file, it must be signed by the appropriate party under 37 CFR 1.33, (e.g., all of the inventors, an attorney of record, or the applicant).

Any changes made in the representation for this application must be submitted using a proper power of attorney document and revocation statement, if applicable.

Any inquiries regarding this notice should be directed to the Application Assistance Unit at 571-272-4200.

/ylueng/

Application Assistance Unit
571-272-4200

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

**CHANGE OF
CORRESPONDENCE ADDRESS
Patent**Address to:
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Commissioner for Patents
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Alexandria, VA 22313-1450

Patent Number	10,067,942
Issue Date	September 4, 2018
Application Number	14/860,289
Filing Date	September 21, 2015
First Named Inventor	Michael R. Manzano
Attorney Docket Number	030721

Please change the Correspondence Address for the above-identified patent to:



The address associated with Customer Number:

23373**OR****Firm or
Individual Name****Address****City****State****ZIP****Country****Telephone****Email**

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I am the:



Patentee.

Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).Attorney or agent of record. Registration Number **54,666**.

Signature

/ Andrew J. Taska /

Typed or
Printed Name

Andrew J. Taska

Date

January 11, 2022

Telephone **202-293-7060**

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.



*Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop Post Issue, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Privacy Act Statement

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: Topia Technology, Inc.Application No./Patent No.: 10,067,942Filed/Issue Date: September 4, 2018Titled: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORKTopia Technology, Inc., a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Michael R. Manzano To: TOPIA TECHNOLOGYThe document was recorded in the United States Patent and Trademark Office at
Reel 036630, Frame 0308, or for which a copy thereof is attached.2. From: John C. Haager To: TOPIA TECHNOLOGY, INC.The document was recorded in the United States Patent and Trademark Office at
Reel 058279, Frame 0956, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Box & Dropbox Exhibit 1008

Page 295

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/ Andrew J. Taska /

Signature

Andrew J. Taska

Printed or Typed Name

01/11/2022

Date

54,666

Title or Registration Number

Privacy Act Statement

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

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in the attached transmittal letter.

I hereby appoint:

Andrew J. Taska, Registration No. 54,666, and
John M. Bird, Registration No. 46,027

as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (Form PTO/AIA/B2A).

Please recognize or change the correspondence address for the application identified in the attached transmittal letter to:

The address associated with the above-mentioned Customer Number.


I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

TOPIA TECHNOLOGY, INC.

- ☐ Inventor or Joint Inventor (title not required below)
- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- ☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- ☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a Petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document)(provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature		Date (Optional)	12/16/21
Name	Janine Terrano		
Title	CEO of TOPIA TECHNOLOGY, INC.		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☒ Total of 1 forms are submitted.

Electronic Acknowledgement Receipt

EFS ID:	44716890
Application Number:	14860289
International Application Number:	
Confirmation Number:	3426
Title of Invention:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	23373
Filer:	Andrew Joseph Taska/Mildred Cabrera
Filer Authorized By:	Andrew Joseph Taska
Attorney Docket Number:	023027-0443281
Receipt Date:	11-JAN-2022
Filing Date:	21-SEP-2015
Time Stamp:	13:36:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Change of Address	A271728SecondChangeofAddress10067942.pdf	117338 baf617288e0ae47617512a77e2041fee4fa61982	no	2

Warnings:

Box & Dropbox Exhibit 1008

Information:					
2	Assignee showing of ownership per 37 CFR 3.73	A271728StatementUnder373.pdf	218228 46b8bca6bb9161713bd06d15e9af30c9781c4b86	no	3
Warnings:					
Information:					
3	Power of Attorney	A271728ExecutedPowerofAttorney.pdf	147589 a76a0eb80b8a19728ce0d345cea0a30b3ee5eeaa	no	1
Warnings:					
Information:					
Total Files Size (in bytes):			483155		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

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

**CHANGE OF
CORRESPONDENCE ADDRESS
Patent**Address to:
Mail Stop Post Issue
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Patent Number	9,143,561
Issue Date	September 22, 2015
Application Number	12/267,852
Filing Date	November 10, 2008
First Named Inventor	Michael R. Manzano
Attorney Docket Number	A271748

Please change the Correspondence Address for the above-identified patent to:



The address associated with Customer Number:

23373**OR****Firm or
Individual Name****Address****City****State****ZIP****Country****Telephone****Email**

This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).

This form will not affect any "fee address" provided for the above-identified patent. To change a "fee address" use the "Fee Address Indication Form" (PTO/SB/47).

I am the:



Patentee.

Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).Attorney or agent of record. Registration Number **54,666**.

Signature

/ Andrew J. Taska /

Typed or
Printed Name

Andrew J. Taska

Date

01/11/2022

Telephone **202-293-7060**

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.



*Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop Post Issue, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Privacy Act Statement

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

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

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

STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Topia Technology, Inc.Application No./Patent No.: 09,143,561 Filed/Issue Date: September 22, 2015Titled: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORKTopia Technology, Inc., a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;
2. ☐ an assignee of less than the entire right, title and interest in
(The extent (by percentage) of its ownership interest is _____ %;) or
3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel , Frame , or a copy* is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Michael R. Manzano To: TOPIA TECHNOLOGYThe document was recorded in the United States Patent and Trademark Office at
Reel 022188 , Frame 0579 , or a copy* is attached.2. From: John C. Haager To: TOPIA TECHNOLOGY, INC.The document was recorded in the United States Patent and Trademark Office at
Reel 058279 , Frame 0956 , or a copy* is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or a copy* is attached.☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

- ☐ *As required by 37 CFR 3.73(b)(1)(i), if a copy/copies is/are attached, the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Andrew J. Taska/

Signature

01/11/2022

Date

Andrew J. Taska

Printed or Typed Name

54,666

Title or Registration Number

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in the attached transmittal letter.

I hereby appoint:

Andrew J. Taska, Registration No. 54,666, and
John M. Bird, Registration No. 46,027

as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (Form PTO/AIA/B2A).

Please recognize or change the correspondence address for the application identified in the attached transmittal letter to:

The address associated with the above-mentioned Customer Number.


I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

TOPIA TECHNOLOGY, INC.

- ☐ Inventor or Joint Inventor (title not required below)
- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- ☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- ☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a Petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document)(provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature		Date (Optional)	12/16/21
Name	Janine Terrano		
Title	CEO of TOPIA TECHNOLOGY, INC.		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☒ Total of 1 forms are submitted.

Electronic Acknowledgement Receipt

EFS ID:	44717826
Application Number:	14860289
International Application Number:	
Confirmation Number:	3426
Title of Invention:	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	23373
Filer:	Andrew Joseph Taska/Mildred Cabrera
Filer Authorized By:	Andrew Joseph Taska
Attorney Docket Number:	023027-0443281
Receipt Date:	11-JAN-2022
Filing Date:	21-SEP-2015
Time Stamp:	14:30:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Change of Address	A271748SecondChangeofAddress9143561PreAIA.pdf	96727 f94dde32cfe1edc1bc78c5dc0a6504e2f3ed2693	no	2

Warnings:

Box & Dropbox Exhibit 1008

Information:					
2	Assignee showing of ownership per 37 CFR 3.73	A271748StatementUnder373pr eAIA.pdf	109144	no	1
			fb62d994fc76b0bde457690f12e74d3050e6a23		
Warnings:					
Information:					
3	Power of Attorney	A271748ExecutedPowerofAttor ney.pdf	147589	no	1
			47a4fc71996fe4a4fa8fcc0d8cfe57bdad1f6f50		
Warnings:					
Information:					
Total Files Size (in bytes):			353460		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/860,289	09/21/2015	Michael R. MANZANO	023027-0443281

23373
SUGHRUE MION, PLLC
2000 PENNSYLVANIA AVENUE, N.W.
SUITE 9000
WASHINGTON, DC 20006

CONFIRMATION NO. 3426
POA ACCEPTANCE LETTER



Date Mailed: 01/18/2022

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/11/2022.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/dgela/



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/860,289	09/21/2015	Michael R. MANZANO	023027-0443281

23373
SUGHRUE MION, PLLC
2000 PENNSYLVANIA AVENUE, N.W.
SUITE 9000
WASHINGTON, DC 20006

CONFIRMATION NO. 3426
POWER OF ATTORNEY NOTICE



Date Mailed: 01/18/2022

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/11/2022.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/dgela/

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Western District of Texas - Waco Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 6:21-cv-01372	DATE FILED December 29, 2021	U.S. DISTRICT COURT Western District of Texas - Waco Division
PLAINTIFF Topia Technology, Inc.		DEFENDANT Box, Inc., Sailpoint Technologies Holdings, Inc., and Vistra Corp.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 9,143,561	Sep. 22, 2015	Topia Technology, Inc.
2 10,067,942	Sep. 4, 2018	Topia Technology, Inc.
3 10,289,607	May 14, 2019	Topia Technology, Inc.
4 10,642,787	May 5, 2020	Topia Technology, Inc.
5 10,754,823	Aug. 25, 2020	Topia Technology, Inc.

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
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5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
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Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 6:21-cv-01372	DATE FILED December 29, 2021	U.S. DISTRICT COURT Western District of Texas - Waco Division
PLAINTIFF Topia Technology, Inc.		DEFENDANT Box, Inc., Sailpoint Technologies Holdings, Inc., and Vistra Corp.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 11,003,622	May 11, 2021	Topia Technology, Inc.
2		
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
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Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Western District of Texas - Waco Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 6:21-cv-01373	DATE FILED December 29, 2021	U.S. DISTRICT COURT Western District of Texas - Waco Division
PLAINTIFF Topia Technology, Inc.		DEFENDANT Dropbox, Inc., Sailpoint Technologies Holdings, Inc., and Clear Channel Outdoor Holdings, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 9,143,561	Sep. 22, 2015	Topia Technology, Inc.
2 10,067,942	Sep. 4, 2018	Topia Technology, Inc.
3 10,289,607	May 14, 2019	Topia Technology, Inc.
4 10,642,787	Aug. 25, 2020	Topia Technology, Inc.
5 10,754,823	Aug. 25, 2020	Topia Technology, Inc.

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
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Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Western District of Texas - Waco Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 6:21-cv-01373	DATE FILED December 29, 2021	U.S. DISTRICT COURT Western District of Texas - Waco Division
PLAINTIFF Topia Technology, Inc.		DEFENDANT Dropbox, Inc., Sailpoint Technologies Holdings, Inc., and Clear Channel Outdoor Holdings, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 11,003,622	May 11, 2021	Topia Technology, Inc.
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
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Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been
filed in the U.S. District Court District of Delaware on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO.	DATE FILED 12/27/2021	U.S. DISTRICT COURT District of Delaware
PLAINTIFF TOPIA TECHNOLOGY, INC.		DEFENDANT EGNYTE, INC.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 9,143,561	9/22/2015	Topia Technology, Inc.
2 10,067,942	9/4/2018	Topia Technology, Inc.
3 10,289,607	5/14/2019	Topia Technology, Inc.
4 10,642,787	5/5/2020	Topia Technology, Inc.
5 10,754,823	8/25/2020	Topia Technology, Inc.

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
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Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

Box & Dropbox Exhibit 1008

Print

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Page 313

ADDENDUM TO AO 120 (ADDITIONAL PATENTS)

Docket No.		Date Filed 12/27/2021	U.S. District Court for the District of Delaware
PLAINTIFF TOPIA TECHNOLOGY, INC.			DEFENDANT EGNYTE, INC.
PATENT OR TRADEMARK NO.		DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
6	11,003,622	05/11/2021	Topia Technology, Inc.
7			
8			
9			
10			