EXHIBIT 1004

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(54) **INTELLIGENT DELIVERY AND ACQUISITION OF DIGITAL ASSETS**

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G06F 17/30 (2006.01)
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CPC ... ***G06Q 30/0641*** (2013.01); ***G06F 17/30017*** (2013.01); ***G06Q 30/0601*** (2013.01); ***H04L 67/06*** (2013.01)

(58) **Field of Classification Search**
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(Continued)

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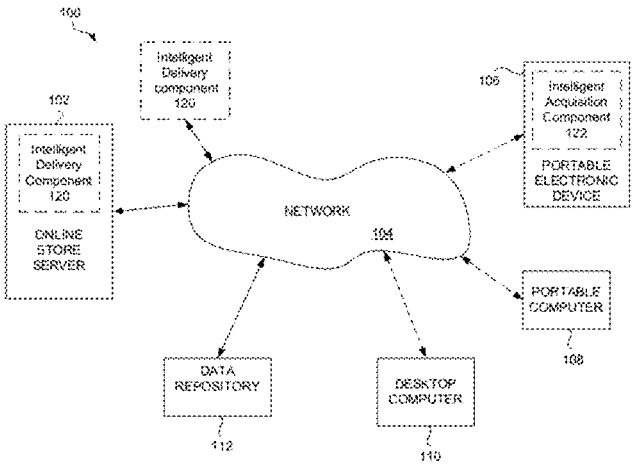
(74) *Attorney, Agent, or Firm* — DLA Piper LLP US

(57) **ABSTRACT**

Improved techniques and systems for delivery and acquisition of digital assets are disclosed. The techniques and systems are especially suitable and useful for delivering digital assets (e.g., media assets) that are available for acquisition and electronic delivery from online stores to electronic devices. In accordance with one aspect, when a digital asset is acquired form an online store via an electronic device associated with a user, the digital asset can be arranged for delivery to a number of other of electronic devices also associated with the user. It will be appreciated that the digital asset can be delivered and acquired without requiring explicit user input or instruction in accordance with another aspect. Other aspects of the techniques and systems include customization of configuration and user interfaces that are provided to facilitate acquisition of digital assets in a more efficient manner.

34 Claims, 9 Drawing Sheets



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H04L 29/08 (2006.01)

(58) **Field of Classification Search**
USPC 705/26.1–27.2
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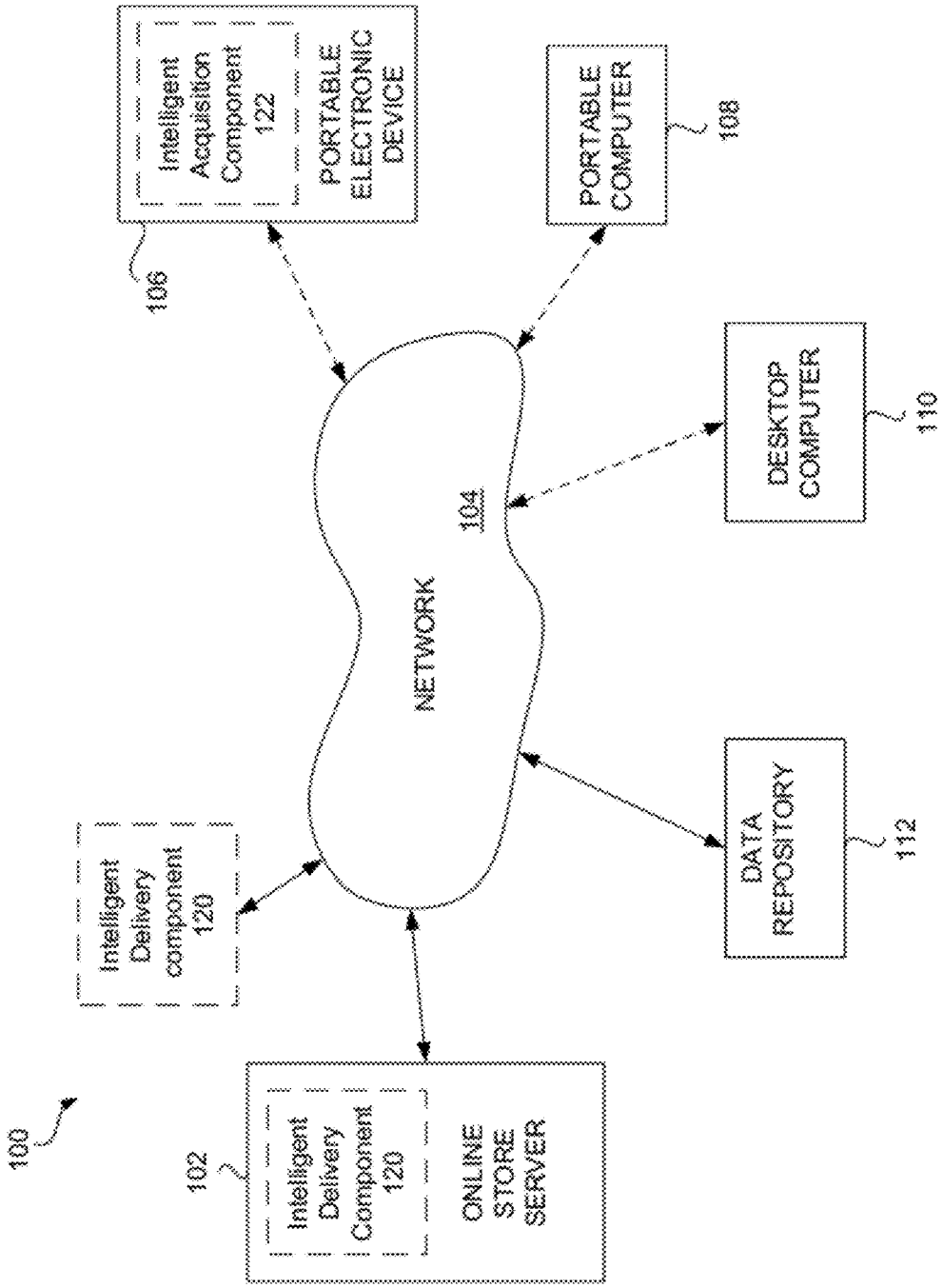
100
102
Intelligent Delivery Component 120
ONLINE STORE SERVER
Intelligent Delivery component 120
NETWORK
104
106
Intelligent Acquisition Component 122
PORTABLE ELECTRONIC DEVICE
108
PORTABLE COMPUTER
110
DESKTOP COMPUTER
112
DATA REPOSITORY

FIG. 1

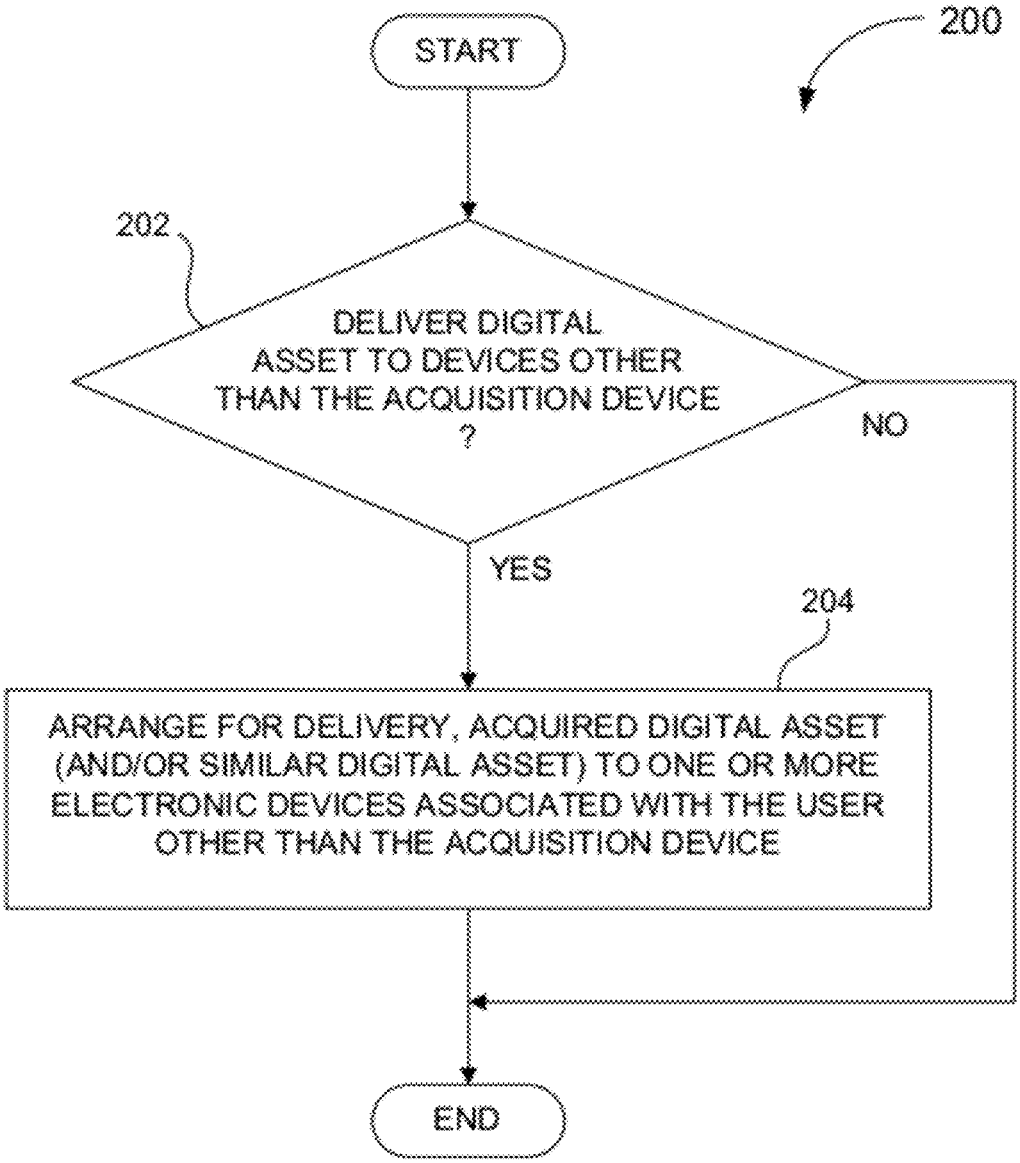
200
START
202
DELIVER DIGITAL ASSET TO DEVICES OTHER THAN THE ACQUISITION DEVICE ?
NO
YES
204
ARRANGE FOR DELIVERY, ACQUIRED DIGITAL ASSET (AND/OR SIMILAR DIGITAL ASSET) TO ONE OR MORE ELECTRONIC DEVICES ASSOCIATED WITH THE USER OTHER THAN THE ACQUISITION DEVICE
END

FIG. 2

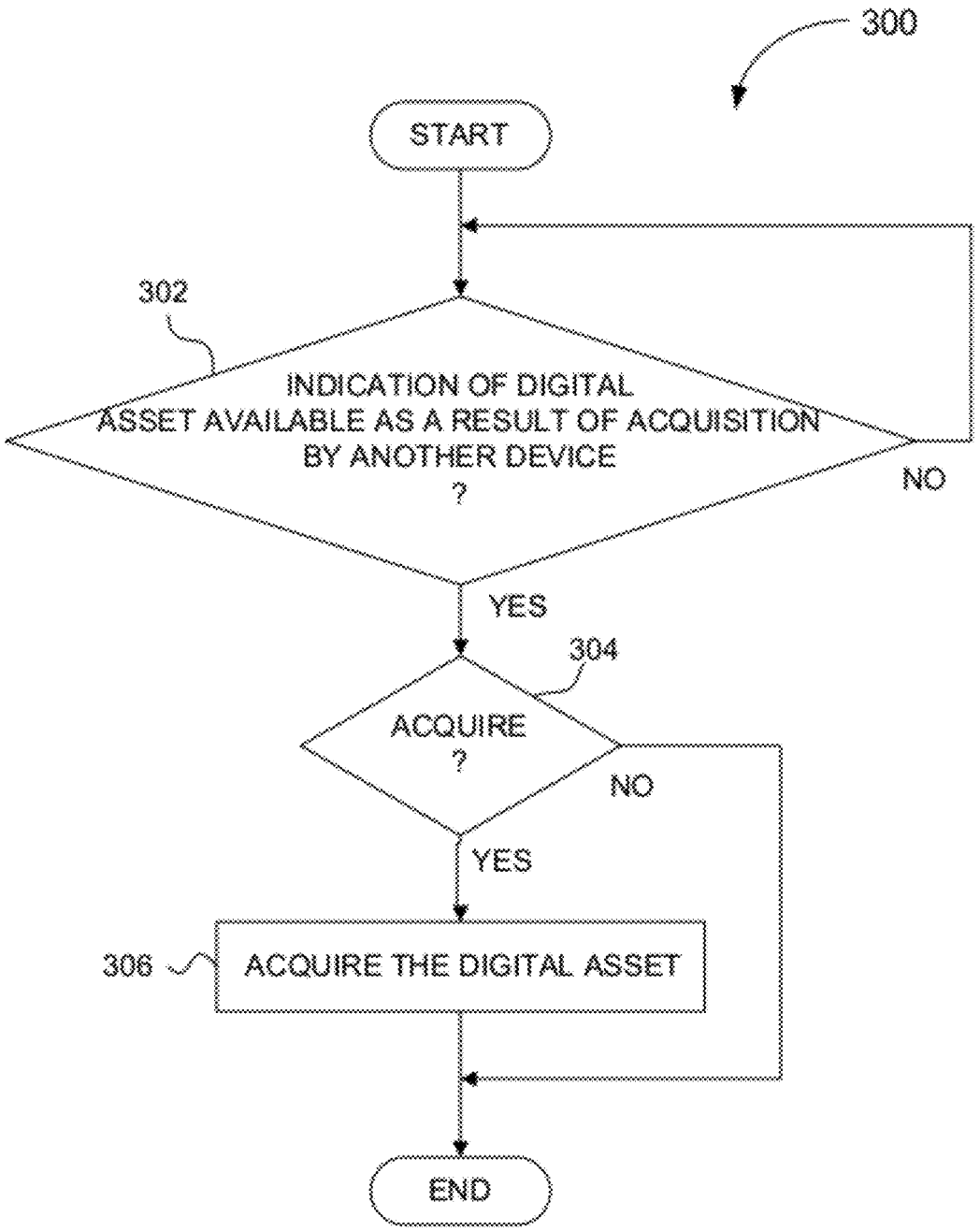
300
START
302
INDICATION OF DIGITAL ASSET AVAILABLE AS A RESULT OF ACQUISITION BY ANOTHER DEVICE ?
NO
YES
304
ACQUIRE ?
NO
YES
306
ACQUIRE THE DIGITAL ASSET
END

FIG. 3

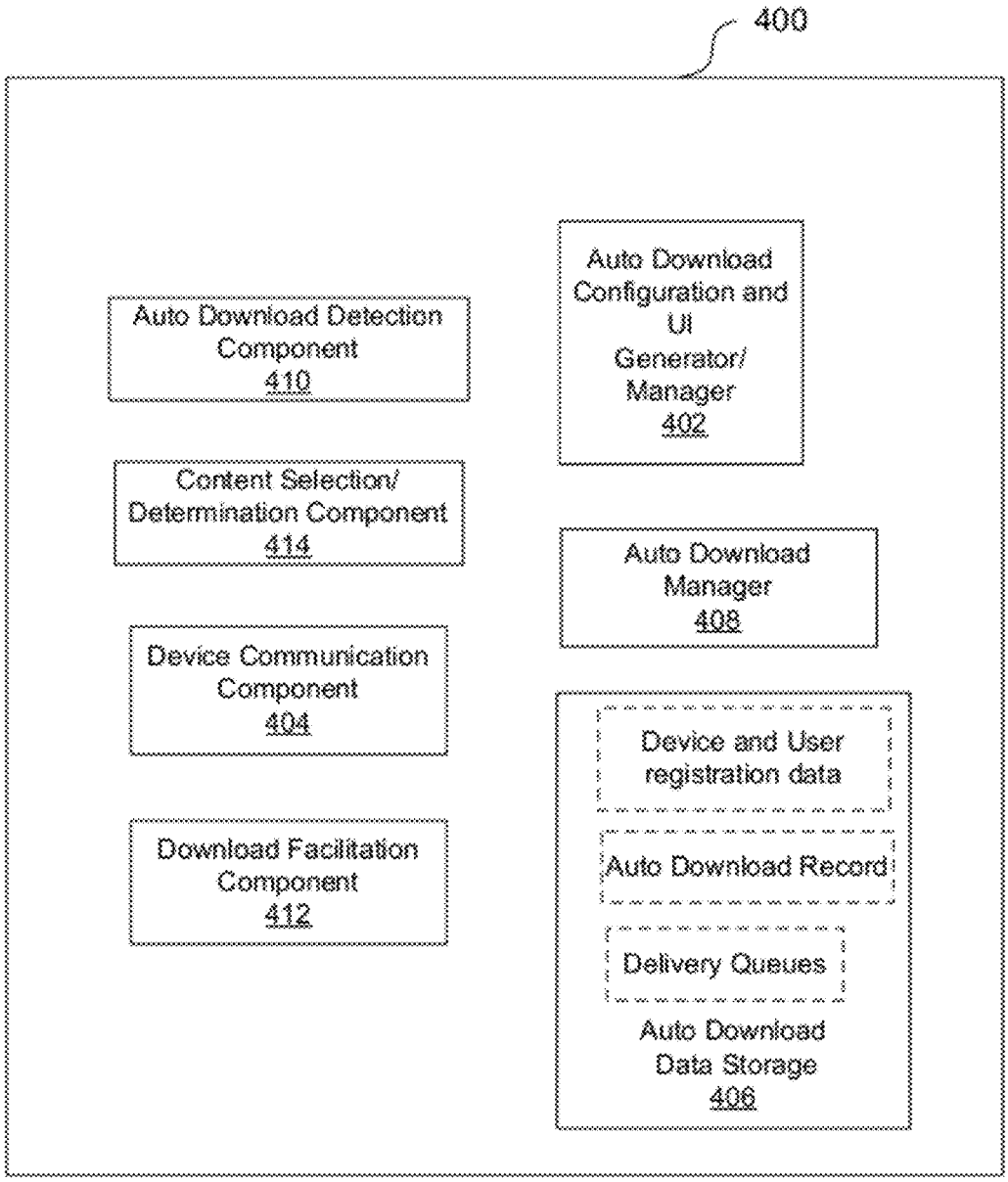
400
Auto Download Detection Component 410
Content Selection/ Determination Component 414
Device Communication Component 404
Download Facilitation Component 412
Auto Download Configuration and UI Generator/ Manager 402
Auto Download Manager 408
Device and User registration data
Auto Download Record
Delivery Queues
Auto Download Data Storage 406

FIG. 4

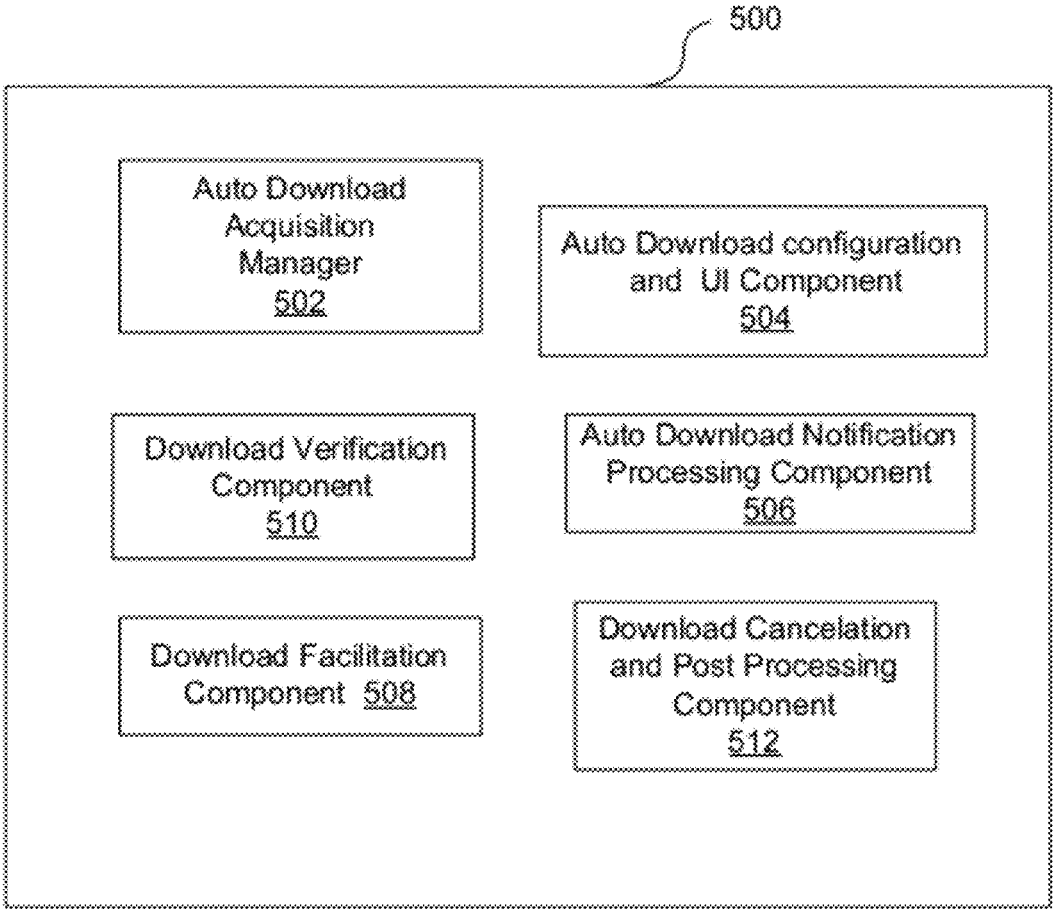
500
Auto Download Acquisition Manager 502
Auto Download configuration and UI Component 504
Download Verification Component 510
Auto Download Notification Processing Component 506
Download Facilitation Component 508
Download Cancelation and Post Processing Component 512

FIG. 5

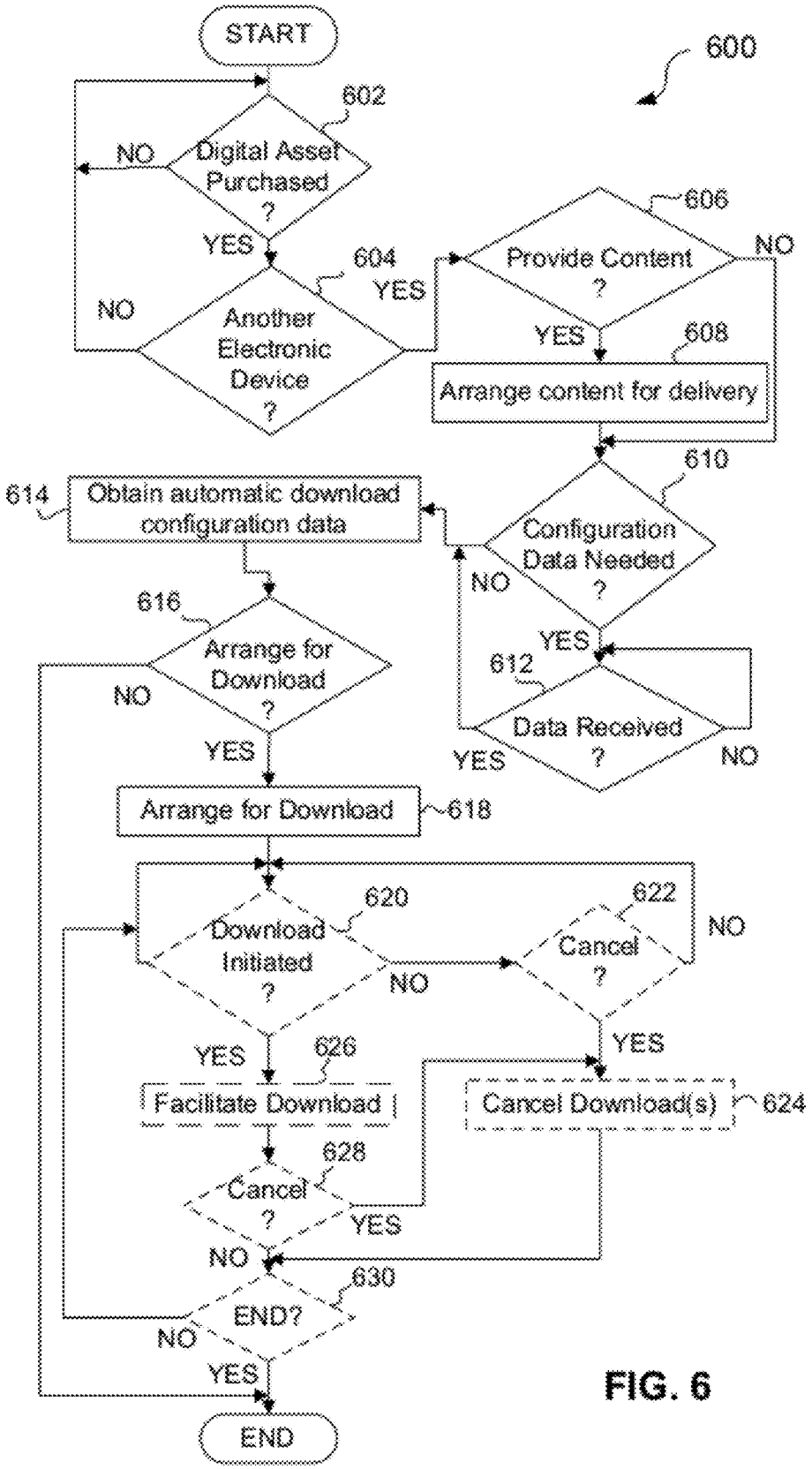
START
600
602
Digital Asset Purchased ?
NO
YES
604
Another Electronic Device ?
NO
YES
606
Provide Content ?
NO
YES
608
Arrange content for delivery
610
Configuration Data Needed ?
NO
YES
612
Data Received ?
YES
NO
614
Obtain automatic download configuration data
616
Arrange for Download ?
NO
YES
Arrange for Download
618
620
Download Initiated ?
NO
YES
622
Cancel ?
NO
YES
626
Facilitate Download
Cancel Download(s)
624
628
Cancel ?
YES
NO
630
END?
NO
YES
END

FIG. 6

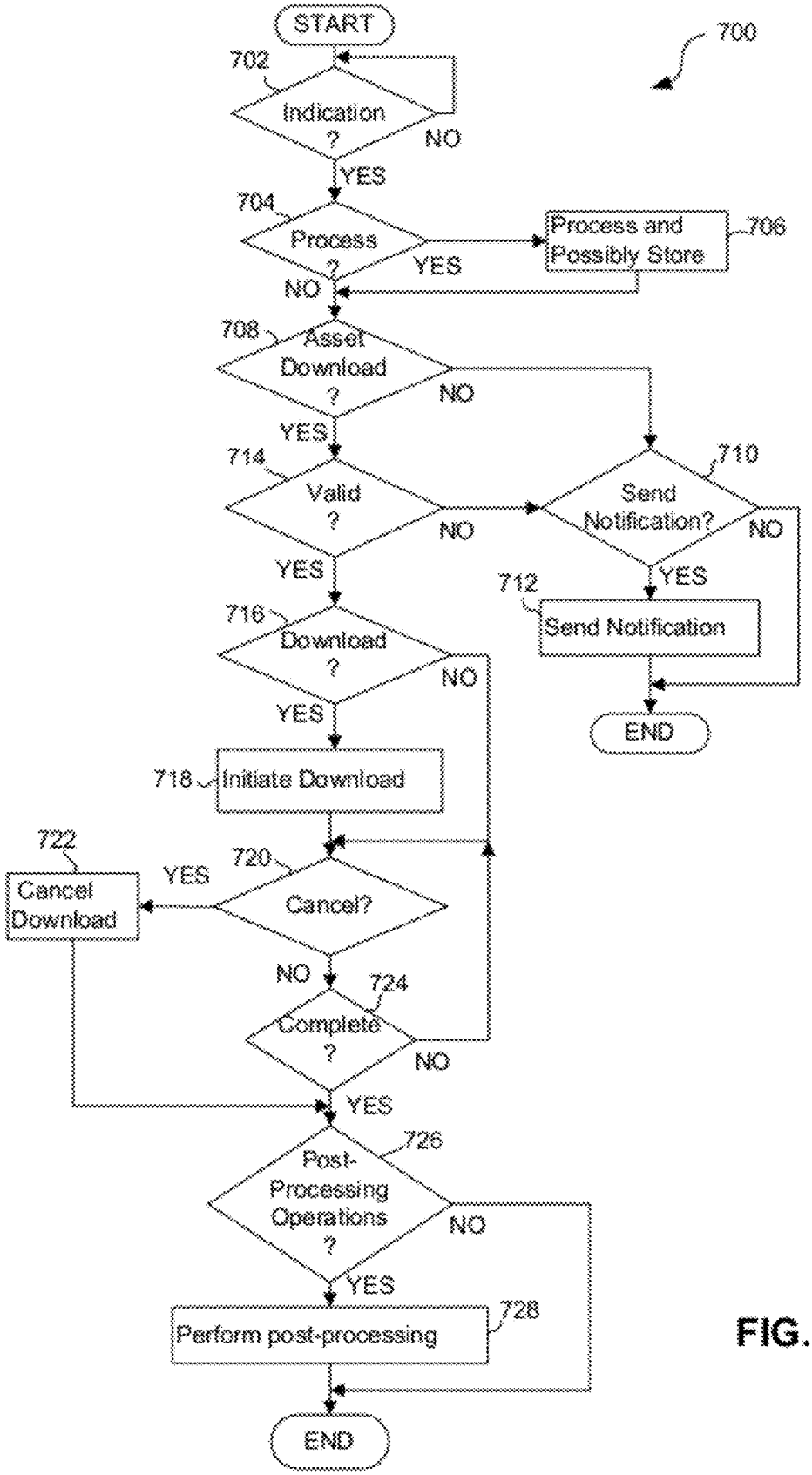
START
700
702
Indication ?
NO
YES
704
Process ?
YES
NO
Process and Possibly Store
706
708
Asset Download ?
NO
YES
714
Valid ?
NO
YES
710
Send Notification?
NO
YES
712
Send Notification
END
716
Download ?
NO
YES
718
Initiate Download
722
Cancel Download
YES
720
Cancel?
NO
724
Complete ?
NO
YES
726
Post-Processing Operations ?
NO
YES
728
Perform post-processing
END

FIG. 7

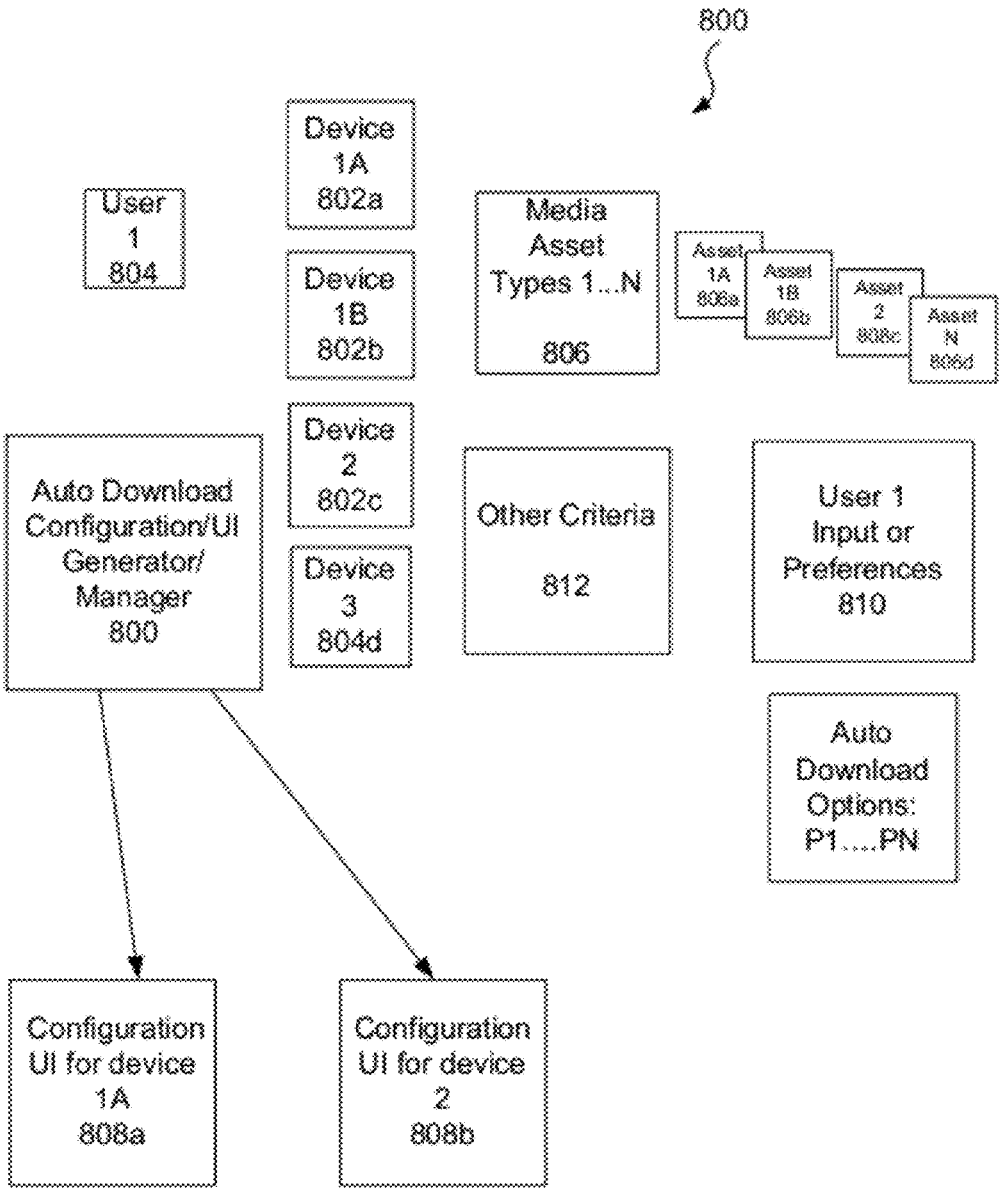
800
User 1 804
Device 1A 802a
Device 1B 802b
Device 2 802c
Device 3 804d
Media Asset Types 1...N 806
Asset 1A 806a
Asset 1B 806b
Asset 2 806c
Asset N 806d
Auto Download Configuration/UI Generator/ Manager 800
Other Criteria 812
User 1 Input or Preferences 810
Auto Download Options: P1....PN
Configuration UI for device 1A 808a
Configuration UI for device 2 808b

FIG. 8

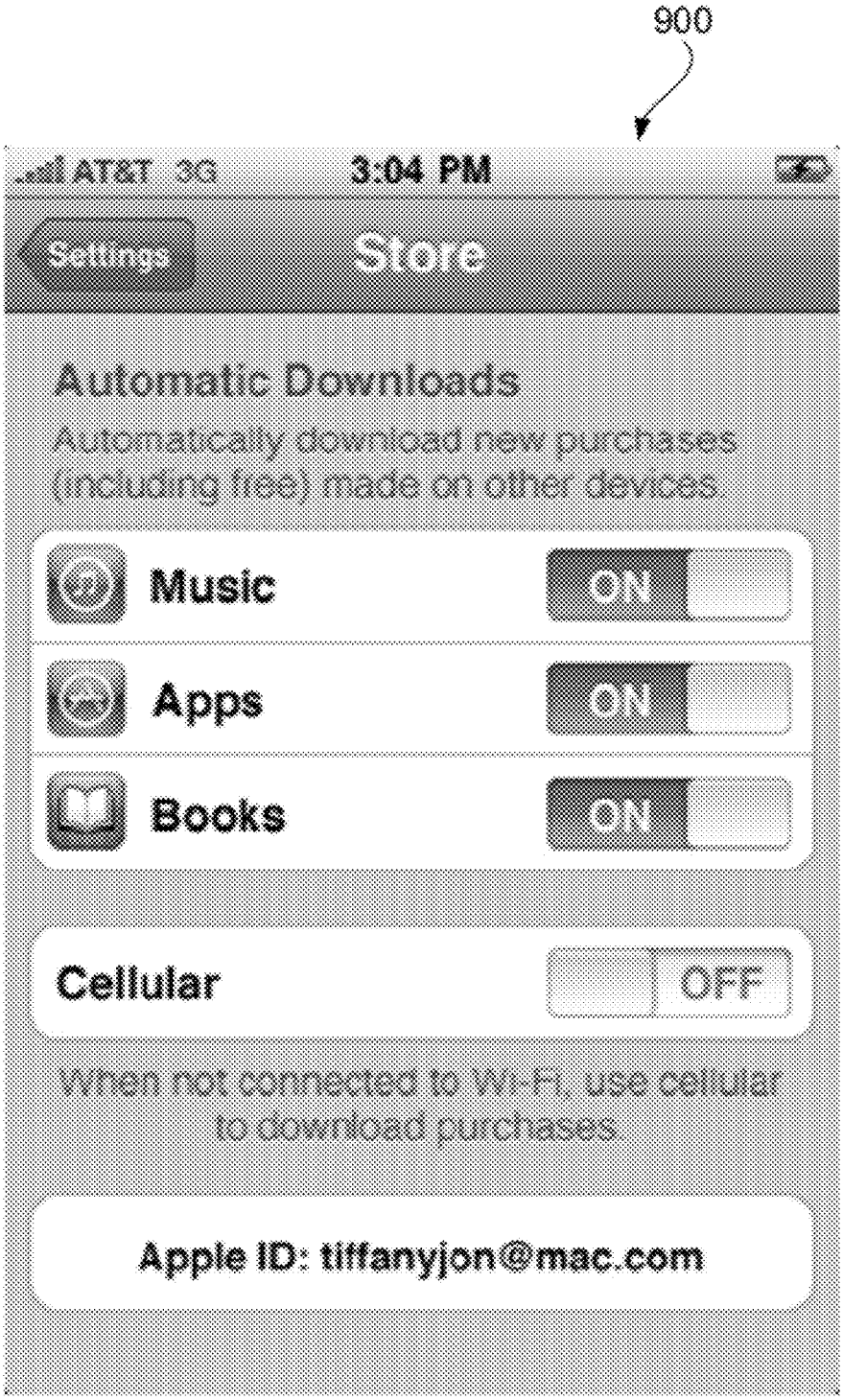
900
AT&T 3G
3:04 PM
Settings
Store
Automatic Downloads
Automatically download new purchases (including free) made on other devices.
Music
ON
Apps
ON
Books
ON
Cellular
OFF
When not connected to Wi-Fi, use cellular to download purchases.
Apple ID: tiffanyjon@mac.com

FIG. 9

INTELLIGENT DELIVERY AND ACQUISITION OF DIGITAL ASSETS

CROSS-REFERENCE TO RELATED APPLICATION

This application claims priority to U.S. Provisional Patent Application No. 61/451,057, filed Mar. 9, 2011, entitled "INTELLIGENT DELIVERY AND ACQUISITION OF DIGITAL ASSETS," which is herein incorporated by reference.

BACKGROUND OF THE INVENTION

Online stores and online shopping have become increasing more popular in recent years. Desktop and laptop computers have been used to purchase various goods and services from online stores. An online store may allow customers, via a network connection to the Internet, to browse, search and purchase various different items from the online store. Purchased items can be delivered by mail or make available for pickup at a store or another location.

Recently, digital assets (e.g., musical songs, movies, computer application programs) have become available for purchase from online stores. Moreover, digital assets have become available for delivery directly to the device used to purchase them. As such, today, a digital asset can be purchased from an online store by way of an electronic device (e.g., a desktop computer) from a residence and immediately delivered to the electronic device used to acquire the digital asset. In other words, after purchasing a digital asset from an online store via an electronic device, the digital asset can be "downloaded" by the electronic device for subsequent use thereon.

However, more recently, the number and variety of electronic devices with the ability to access online stores have dramatically increased. Today, a person may own and/or operate several electronic devices with the ability to access online stores, including a desktop computer, a laptop computer, a pad or tablet computer (e.g., iPad™), a smartphone, a media player, a gaming device, a television, and so on. In addition, an ever increasing number and types of digital assets are becoming available at online stores for various electronic devices, including, media, books, application programs, etc. As a result, management of delivery of digital assets to electronic devices can pose difficulties for users, especially those maintaining collections of various digital assets on several distinct electronic devices. Hence, there is a need for improved acquisition and delivery of digital assets.

SUMMARY

Improved techniques and systems for delivery and acquisition of digital assets are disclosed. The techniques and systems are especially suitable and useful for delivering digital assets (e.g., media assets) that are available for acquisition and electronic delivery from online stores to electronic devices.

In accordance with one aspect, when a digital asset is acquired form an online store via an electronic device associated with a user, the digital asset can be arranged for delivery to a number of other of electronic devices also associated with the user. It will be appreciated that the digital asset can be delivered and acquired without requiring explicit user input or instruction in accordance with another aspect. By way of example, an electronic device can be configured to automatically download a digital asset when it receives a notification (e.g., a push notification) directly or indirectly via an online store server. The online store server can be configured to send the notification to the electronic device when another electronic device acquires the digital asset from the online store. Other aspects of the techniques include customization of configuration and user interfaces that are provided to facilitate acquisition of digital assets in a more efficient manner.

The techniques and mechanisms can be implemented in numerous ways, including as a method, system, device, or apparatus (including computer readable medium or graphical user interface). Several embodiments are discussed below.

One embodiment pertains to a method for facilitating delivery of a digital asset, via a network, from an online store to one or more electronic devices associated with a user. The method can, for example, be used by an online store server to facilitate delivery of a digital asset to one or more electronic devices. In doing so, the method can determine whether a digital asset acquired from the online store, by or via an acquisition device associated with a user, is to be delivered to one or more electronic devices, other than the acquisition device, that are also associated with the user. The digital asset acquired from the online store can be arranged for delivery to the one or more electronic devices associated with the user when the determining determines that the digital asset is to be delivered to the one or more electronic devices.

Another embodiment pertains to a method that can be used by an electronic device to acquire a digital asset from an online store via a network. The method can, for example, operate to obtain an indication of a digital asset available for acquisition by the electronic device associated with a user. The indication can be a result of the digital asset being acquired from the online store by an acquisition device other than the electronic device, where the acquisition device is also associated with the user. The method can also determine whether the user of the electronic device is authenticated to the online store. Subsequently, the method can determine whether to deliver the digital asset to the electronic device if the user of the electronic device is authenticated to the online store. The method can then arrange for electronic delivery of the digital asset to the electronic device when the determining determines that the digital asset is to be delivered to the electronic device. The arranging for electronic delivery can include downloading the digital asset over the network to the electronic device.

Yet another embodiment pertains to a method for automatically delivering a digital asset, via a network, from an online store to one or more electronic devices associated with a user. The method can, for example, be used by an online store server. In doing so, initially, it can be determined whether a digital asset has been purchased or is to be purchased from an online store by or via an acquisition device associated with a user. Then, at least partially based automatic download data associated with the user, the method can determine whether to the digital asset is to be delivered via the network to one or more other electronic devices associated with the user. The method can also arrange for delivery of the digital asset to the one or more electronic devices associated with the user without requiring any user explicit request for such from the one or more electronic devices when it is determined that the digital asset is to be delivered to the one or more electronic devices.

Still another embodiment pertains to an electronic device that includes a display, and one or more processors or

processing cores operable to display an automatic download configuration window on the display. It should be noted that the automatic download configuration window can include user-selectable automatic download options for automatically downloading one or more digital assets to the electronic device when a digital asset is acquired from an online repository via another electronic device.

Still another embodiment pertains to a non-transitory computer readable medium that includes at least tangible computer program code stored thereon for facilitating delivery of a digital asset, via a network, from an online store to one or more electronic devices associated with a user. The computer readable medium can, for example, include at least (i) computer program code for determining whether a digital asset, acquired or to be acquired from the online store by or via an acquisition device associated with a user, is to be delivered to one or more electronic devices other than the acquisition device that are also associated with the user; and (ii) computer program code for arranging delivery of the digital asset to the one or more electronic devices associated with the user when the computer program code for determining determines that the digital asset is to be delivered to the one or more electronic devices.

Yet still another embodiment pertains to a non-transitory computer readable medium that includes at least executable computer program code tangibly stored thereon for delivering at least one digital asset from an online digital asset store to an electronic device via a network. The computer readable medium can, for example, include: computer program code for acquiring usage rights to a digital asset from the online digital asset store using an acquisition device, the acquisition device being affiliated with a user account; computer program code for determining one or more other electronic devices that are associated with the user account; computer program code for obtaining automatic download configuration data for each of the one or more other electronic devices; computer program code for determining whether the digital asset is be delivered to at least one of the one or more other electronic devices based on the automatic download configuration data corresponding to the respective one or more other electronic devices; and computer program code for arranging for automatic delivery of the digital asset to the at least one of the one or more other electronic devices when it is determined that the digital asset is be delivered to at least one of the one or more other electronic devices.

Other aspects and advantages of the invention will become apparent from the following detailed description taken in conjunction with the accompanying drawings which illustrate, by way of example, the principles of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention will be readily understood by the following detailed description in conjunction with the accompanying drawings, wherein like reference numerals designate like structural elements, and in which:

FIG. **1** is depicts a block diagram of the digital asset acquisition and delivery system in accordance with one embodiment.

FIG. **2** depicts a method for facilitating delivery of a digital asset available for acquisition from an online store in accordance with one embodiment.

FIG. **3** depicts a method for acquiring a digital asset available for acquisition from an online store in accordance with one embodiment.

FIG. **4** depicts an automatic download delivery component in accordance with one embodiment.

FIG. **5** depicts an automatic download delivery component in accordance with one embodiment.

FIG. **6** depicts a method for facilitating automatic downloading of a digital asset in accordance with another exemplary embodiment.

FIG. **7** depicts a method for facilitating automatic downloading of a digital asset in accordance with yet another exemplary embodiment.

FIG. **8** depicts an automatic download configuration generator in accordance with one embodiment.

FIG. **9** depicts and exemplary automatic configuration UI in form of a window suitable for display on various electronic devices.

DETAILED DESCRIPTION OF EMBODIMENTS OF THE INVENTION

Improved techniques and systems for delivery and acquisition of digital assets are disclosed. The techniques and systems are especially suitable and useful for delivering digital assets (e.g., media assets) that are available for acquisition and electronic delivery from online stores to electronic devices.

In accordance with one aspect, when a digital asset is acquired form an online store via an electronic device associated with a user, the digital asset can be arranged for delivery to a number of other of electronic devices also associated with the user. It will be appreciated that the digital asset can be delivered and acquired without requiring explicit user input or instruction in accordance with another aspect. By way of example, an electronic device can be configured to automatically download a digital asset when it receives a notification (e.g., a push notification) directly or indirectly via an online store server. The online store server can be configured to send the notification to the electronic device when another electronic device acquires the digital asset from the online store. Other aspects of the techniques include customization of configuration and user interfaces that are provided to facilitate acquisition of digital assets in a more efficient manner.

Embodiments are discussed below in greater detail with reference to FIGS. **1-9**. However, those skilled in the art will readily appreciate that the detailed description given herein with respect to these figures is for explanatory purposes as the invention extends beyond these limited embodiments.

FIG. **1** is depicts a block diagram of the digital asset acquisition and delivery system **100** in accordance with one embodiment. Referring to FIG. **1**, the digital asset acquisition and delivery system **100** includes an online store server **102** (e.g., a digital asset store server **102**) providing digital assets to various electronic devices **106**, **108** and **110** for online acquisition. Digital assets can, for example, include various types of media related items (e.g., musical albums, songs, movies, audio, video, textual content, books) as well as various application programs ("applications") that can be provided for electronic devices (e.g., productivity products, games, computer applications for computing devices). It should be noted that the online store server **102** can effectively host an online store (e.g., a digital asset store that can offer digital assets). Generally, the online store server **102** can facilitate searching, browsing and purchasing of digital assets. Referring back to FIG. **1**, the online store server **102** can be effectively coupled by wire and/or wirelessly to a network **104**. The network **104** can, for example, be a data network, a local area network, a wide area network, a global network, public network, a private network, or the Internet.

It should be noted that the network **104** can be representative of a number of different networks separately owned and operated.

In any case, the online store server **102** can effectively serve as, or provide, a delivery system for delivering digital assets via the network **104** to other devices including, a portable electronic device **106**, a portable computer **108**, and a desktop computer **110**. These electronic devices can acquire digital assets via the online store **102**. It should be noted that that the each one of the electronic devices **106**, **108** and **100** can also be connected by wire and/or wirelessly to the network **104**. As such, these devices can effectively acquire various digital assets from the online store server **102** via the network **104**. By way of example, a user (e.g., a person, an entity, an application program, a group) can effectively use the portable computer **108** to connect via the network **104** to the online store server **102** to acquire a digital asset by purchasing the digital asset. Following the purchase, the online store server **102** can facilitate download of the digital asset to the portable computer **108**. The digital asset can be stored in the online store server **102** or a data repository (e.g., a data repository server) **112**. As such, downloading of the digital asset can be facilitated by another server (e.g., a data repository server **112**) via the network **104** or another network (not shown). In any case, the digital asset acquisition and delivery system **100** can facilitate acquisition and delivery of digital assets via one or more networks (e.g., network **104**) to one or more various devices (e.g., portable electronic device **106**, portable computer **108** and/or desktop computer **110**).

Moreover, the digital asset acquisition and delivery system **100** can facilitate acquisition and delivery of digital assets in an intelligent manner among various electronic devices, whereby a digital asset acquired by one electronic device (e.g., portable computer **108**) can be effectively delivered to another electronic device (e.g., electronic device **106**). Specifically, in accordance with the embodiment depicted in FIG. **1**, an intelligent delivery component **120** can be provided as a separate component, as a part of the online store server **102**, and/or as a part of another entity (e.g., a repository server **112**) (not shown). As such, the intelligent delivery component **120** can, for example, be provided as a server or server component as will be appreciated by those skilled in the art. The intelligent delivery component **120** can be operable to determine whether a digital asset that has been acquired or is soon to be acquired from the online store server **102** by or via an acquisition device (e.g., portable computer **108**) is to be delivered to one or more electronic devices other than the acquisition device (e.g., electronic devices **106** and **110**). As used herein, a digital asset acquired (e.g., purchased, rented, ordered, requested) can refer to a digital asset that has been acquired or that is soon to be acquired.

Typically, the acquisition device and the other one or more other electronic devices are associated with the same user (e.g., a number of electronic devices owned, operated, and/or registered to a person). In any case, if the intelligent delivery component **120** determines that the digital asset is to be delivered to the one or more electronic devices other than the acquisition device, the intelligent delivery component **120** can arrange delivery of the digital asset to the acquisition device asset for delivery to one or more electronic devices other than the acquisition device. It should be noted that instead of, or in addition to, the digital asset delivered (or to be delivered) to the acquisition device, the intelligent delivery component **120** can arrange the same digital asset or another digital asset for delivery to one or more electronic devices other than the acquisition device. In other words, the digital asset arranged for delivery need not be identical or limited to the digital asset acquired by the acquisition device. The another digital asset that can be arranged for delivery can also be available for acquisition from the online store can be a similar digital asset, a different format of the digital asset, or a different version of the digital asset). As a result, the digital asset or the another digital asset can be acquired from the online store **102** and can be delivered to one or more electronic devices other than the acquisition device. It will be appreciated that the intelligent acquisition device component **122**, among other things, can facilitate automatic download of digital assets available from an online store to one or more electronic devices. By way of example, when a digital asset (e.g., a song) has been acquired from the online store server **102** via the portable computer **108** associated with a user, the intelligent delivery component **120** can arrange for automatic download of the same digital asset or one or more other electronic device, such as the portable electronic device **106**, which is also associated with the same user.

It should be noted that an intelligent acquisition component can be provided for an electronic device to facilitate acquisition of a digital asset arranged for delivery by the intelligent delivery component **120**. Referring to FIG. **1**, an intelligent acquisition device component **122** can be provided for the portable electronic device **106**. As will be described below in greater detail, the intelligent acquisition component **122**, among other things, can facilitate automatic download of various digital assets to the the portable electronic device **106** based on the information (or data) provided by the intelligent acquisition component **122**. The intelligent acquisition device component **122** may also be configured to perform additional tasks including, for example, determining whether to download one or more digital assets that have been made available to the portable electronic device **106**.

Those skilled in the art will readily know that the intelligent delivery component **120** and intelligent acquisition component **122** can, for example, be provided as software and/or hardware components including and/or supported by memory, and one or processers or processing cores (e.g., a Central Processing Unit (CPU)).

FIG. **2** depicts a method **200** for facilitating delivery of a digital asset available for acquisition from an online store in accordance with one embodiment. Method **200** can, for example, be used by the intelligent delivery component **120** depicted in FIG. **1**. As such, method **200** can, for example, be used by an online store server (e.g., online store server **102**). Referring to FIG. **2**, it is determined (**202**) whether a digital asset, acquired or to be acquired from the online store by or via an acquisition device associated with a user, is to be delivered to one or more electronic devices (other than the acquisition device) that are associated with the user. If it is determined (**202**) that the digital asset is to be delivered to one or more electronic devices other than the acquisition device, the digital asset and/or another digital asset available for acquisition from the online store can be arranged for delivery to the one or more other electronic devices (other than the acquisition device) that are associated with the user. Method **200** can end after the digital asset has been arranged for delivery to the one or more electronic devices other than the acquisition device.

FIG. **3** depicts a method **300** for acquiring a digital asset available for acquisition from an online store in accordance with one embodiment. Method **300** can, for example, be used by the intelligent acquisition component **122** depicted

in FIG. **1**. As such, method **300** can be used by an electronic device to acquire digital assets available for acquisition from an online store. Referring to FIG. **3**, initially, it is determined (**302**) whether an indication of a digital asset being available (or arranged) for acquisition has been obtained. Typically, the digital asset is available by a device associated with a user.

It should be noted that the indication can be obtained as a result of the digital asset (or a similar digital asset) being acquired or about to be acquired from the online store via another device associated with the same user. In other words, the indication can be provided to the electronic device when a digital asset has been acquired or is to be acquired from the online store by a device other than the electronic device. If it is determined (**302**) that the indication has been received, it can be determined (**304**) whether to acquire the digital asset made available as a result of acquisition by another electronic device. If it is determined (**304**) that the digital asset is not to be acquired the digital asset, method **300** can end. However, the digital asset can be acquired (**306**) if it is determined (**304**) to acquire the digital asset before method **300** ends.

As noted above, an intelligent delivery component and an intelligent acquisition component, among other things, can facilitate automatic download of digital assets available from an online store to one or more devices. To further elaborate, FIG. **4** depicts an automatic download delivery component **400** in accordance with one embodiment. One or more components of the automatic download delivery system **400** can, for example, be provided by the intelligent delivery component **120** depicted in FIG. **1** to facilitate automatic download of digital assets available from an online store. As such, the automatic download delivery component **400** can, for example, be provided by or for a server device (e.g., an online store server).

Referring to FIG. **4**, automatic download delivery component **400** can provide an automatic download configuration and UI generator and/or manager (configuration manager) **402** operable to facilitate configuring one or more automatic download parameters, as well as being operable to facilitate generation of one or more User Interface (UI) components (e.g., dialog windows, configuration windows). In particular, configuration manager **402** can determine and send an electronic device various UI components for an automatic download option. It will be appreciated that the configuration manager **402** can customize or determine a UI component for an electronic device as deemed appropriate for that particular electronic device. By way of example, if an electronic device does not have the capability to execute applications or use digital books (e.g., does not have a book reading/presenting application for presenting digital books) the configuration manager **402** may provide a UI component that does not list applications or digital books as an option but lists other types of digital assets (e.g., music, movies) as an option that can be selected for automatic download to the device. Selected digital assets can be automatically downloaded to an electronic device based on the selected automatic download options when such assets are acquired (e.g., purchased) from an online store by another device also associated with the user. The user can have previously provided automatic download options.

A UI component generated for an electronic device can be sent to the electronic device by a device communication component **404** or by other mechanisms. In any case, the user of the electronic device that receives a UI component can effectively provide a number of automatic download options by interacting with the UI component and allowing the options to be sent back to the configuration manager **402** for processing. Data including the options provided by the user can be stored in an automatic download data storage **406**, for example, as a part of automatic download data arranged for various devices and/or users associated with such devices. The automatic download data storage **206** can be used to store other information, including device and user registration data indicative of a number of devices registered by each one of users of an online store (e.g., devices registered by a person to an account).

It should be noted that an auto download manager **408** can effectively manage download processing as well as coordinate operations of various other components depicted in FIG. **4**. As such, the auto download manager **408** can, for example, interact with the configuration manager **402** to request generation of an automatic download configuration UI, store and obtain data from the automatic download data storage **206**, and so on. Generally, download activities can be initiated based on detection of an event or an activity by the auto download detection component **410**. By way of example, the auto download detection component **410** can detect that a digital asset has been purchased or is to be purchased via an electronic device associated with a user. In the example, if this is the first purchase made by the user and/or first purchase made via the electronic device, the configuration manager **402** can be activated to generate an initial UI component to be displayed to the electronic device used to purchase the asset and/or a number of other electronic devices that are associated with the user. The initial UI component can, for example, be a dialog window to inform the user of the availability of an auto download option and allow the user to request more information and/or request to be provided with configuration user interfaces on a single device and/or separately on each one the devices associated with the user. In accordance with one exemplary embodiment, an automatic download configuration UI can be "pushed" to an electronic device and can consequently be displayed at a time determined or deemed appropriate by the automatic download delivery component **400**.

Typically, after automatic download options have been provided by the user, one or more digital assets can be arranged for automatic delivery to one or more electronic devices other than the one used to acquire the digital asset. By way of example, when purchase of a digital asset from an online store via an acquisition device is detected by the automatic download detection component **410**, the auto download manager **408** can determine at least partly based on device, user registration data, and auto download configuration data stored in the auto download data storage **406**, whether the digital asset and/or another digital asset (e.g., a similar digital asset, an additional bonus asset) is to be automatically downloaded to one or more electronic devices other than the acquisition device registered to the user. If so, a content selection/determination component **414** can determine and/or select the content to be automatically downloaded based on one more criteria (e.g., a device capability, a network parameter). As a result, a digital asset (e.g., a song) purchased by a user from an online store by using one registered device may, for example, be arranged for automatic download to another device also registered to the same user. The automatic download may, for example, occur when the user has effectively allowed or enabled the second device to receive automatic download of songs purchased by one or more other devices registered to the user.

As noted above, download activities can be initiated based on detection of an event or activity by the auto download detection component **410**. It should be noted that

the download detection component **410** can, for example, receive an indication of an event from an online store and/or another entity. Furthermore, automatic download of a digital asset can be facilitated by a download facilitation component **412** which can, for example, place the digital asset in a queue for delivery. The queue can be stored in the auto download storage **406**.

Those skilled in the art will also appreciate that an automatic download token may also be used to facilitate downloading of digital assets in a secure manner. As such, an automatic download token can, for example, be generated by the download facilitation component **412** and effectively provided to an electronic device. The automatic download token can be sent back by the electronic device and recognized as a valid token by the download facilitation component **412**. An automatic download token may be valid for a limited time or limited number of automatic downloads.

To further elaborate, FIG. **5** depicts an automatic acquisition component **500** in accordance with one embodiment. One or more components of the automatic download delivery system **500** can, for example, be provided by the intelligent acquisition component **122** depicted in FIG. **1** to facilitate automatic download of digital assets. As such, the automatic acquisition component **500** can, for example, be provided by or for an electronic device.

Referring to FIG. **5**, a download acquisition manager **502** can effectively manage a number of other components of the automatic acquisition component **500** and coordinate automatic download related operations, activities and/or events. Generally, an indication or notification related to automatic download of a digital asset can be obtained by one or more components of the automatic acquisition component **500**. Typically, the indication or notification is sent directly or indirectly by an automatic delivery component (e.g., an automatic delivery download component **400** depicted in FIG. **4**). An indication can, for example, pertain to a notification regarding availability of an automatic download option, or it may pertain to a particular UI relating to automatic download of digital assets to be displayed for a user. Generally, an automatic download configuration and UI component **504** can perform activities related to setting download configuration and interfacing with a user. As such, the automatic download configuration and UI component **504** can, for example, be operable to cause display of a particular dialog or user configuration window relating to automatic download of digital assets. The automatic download configuration and UI component **502** can be operable to determine the UI components to be displayed. However, it may be desirable to allow a server component associated with an online store (e.g., automatic download configuration manager **402**) to control at least some aspects of user interfaces, including when to display a UI and options to be presented to users. This may allow changes to be made more efficiently and easily via a central entity rather than changing numerous electronic devices. In any case, a download notification can be received and processed, at least initially, by an automatic download notification component **506**. Consequently, an indication for availability of a digital asset for download can result in automatic download of the digital asset by the automatic acquisition component **500**. More particularly, a download facilitation component **508** can facilitate automatic downloading of a digital asset, for example, based on a Universal Resource Locator (URL) received from a server associated with an online store. Generally, a URL can specify where an identified resource is available and the mechanism for retrieving it. As such, a URL is one exemplary mechanism that can be used to facilitate automatic downloading and/or effectively canceling the automatic downloading of digital assets.

It should be noted that a download verification component **510** can determine whether or not to download an available asset, prior to allowing the download facilitation component **512** to facilitate the asset being downloaded. Generally, the download verification component **510** can determine whether the download is appropriate or desired for a particular user or device. As such, a download verification component **510** can, for example, determine: whether a device is currently registered to the user of the acquisition device that effectively caused the digital asset to be made available for automatic download, whether the digital asset available for downloaded is already stored on a device, whether the digital asset is supported by the device, or whether auto download configuration of the electronic device, which may be indicative of a preference of user, would allow the download, and so on. As such, it should be noted that download acquisition manager **502** can also facilitate storage of download configuration data locally on an electronic device, or obtain automatic download configuration from a server and/or trusted component. In any case, automatic download configuration data may be used by the download verification component **510** to determine whether or not to download a digital asset. In addition, a download cancelation and post processing component **512** can effectively cancel automatic downloads and perform post download operations, including: (i) removing an asset that has been automatically downloaded, and (ii) installing an asset (e.g., an application) that has been automatically downloaded. Cancelation of an automatic download scheduled to be performed or in the process of being performed can, for example, be performed based on user input provided via a UI. A cancelation and/or removal of a digital asset automatically downloaded or to be automatically downloaded can be performed. For example, based on a URL provided by a server, the URL can be used to inform the server that the delivery of the digital asset has been canceled. Those skilled in the art will also appreciate that an automatic download token may also be used to facilitate downloading of digital assets. An automatic download token can, for example, be passed back and forth between the download acquisition manager **502** and a server during notification of available download or requesting download.

FIG. **6** depicts a method **600** for facilitating automatic downloading of a digital asset in accordance with another exemplary embodiment. Method **600** can, for example, be used by the automatic download delivery component **400** depicted in FIG. **4**. As such, method **600** can, for example, be performed by a server or one or more server components.

Referring to FIG. **6**, initially, it is determined (**602**) whether a digital asset has been purchased from an online store via an acquisition device registered to a user. If it is determined (**602**) that a digital asset has been purchased from an online store via an acquisition device registered to a user, it is determined (**604**) whether there is at least one other electronic device also registered to the same user. The other requested device can be referred to as a requested device. If it is determined (**604**) that no other electronic device has been registered to the user, method **600** can effectively wait for a determination (**602**) that a digital asset has been purchased from an online store via an acquisition device registered to a user. However, if it is determined (**604**) that at least one electronic device other than the acquisition device has been registered to the same user, it can be determined (**606**) whether to provide a digital asset (e.g., digital content) to the acquisition device and/or at least one

other electronic device registered to the user. As a result, content including indications, configurations and/or various user interfaces can be effectively delivered (**608**) to the acquisition device and/or at least one other electronic device registered to the user. In one embodiment, it may be desirable to provide to solicit user interest (e.g., via the acquisition device) in facilitating automatic download. In addition, if the user is interested in an automatic download feature, an automatic download token can be provided to the acquisition device and/or one or more other electronic devices registered to the user.

Subsequently, it can be determined (**610**) whether automatic download configuration data is needed. Automatic download configuration data can, for example, represent preferences of a user with respect to automatically downloading. The download configuration data can pertain to particular types of digital assets for various devices that have been registered to the user. Although not shown in FIG. **6**, it should be noted that authentication of the user can also be performed during the configuration process. In any case, if it is determined (**610**) that configuration data is needed, the method **500** can effectively wait (**612**) for data to be received.

Thereafter, or in the case when it is determined (**610**) that configuration data is available and therefore not needed to be received, download configuration data can be obtained (**614**) to determine (**616**) whether to arrange the digital asset acquired by the acquisition device for delivery to one or more electronic devices other than the acquisition device that has been registered to the user. If it is determined (**616**) based on the download configuration data whether the digital asset is to be delivered to at least one electronic device other than the acquisition device, the digital asset is arranged (**618**) for automatic download to at least one electronic device other than the acquisition device. Arranging (**618**) the digital asset for delivery can, for example, include determining an appropriate type, version and/or format to be delivered to a particular electronic device, sending a push notification to an electronic device, storing the appropriate digital asset in a delivery queue for delivery at an appropriate time (e.g., when one or more network conditions are met), and/or recording automatic download data for a particular user and/or device. Optionally, additional operations can be performed after the digital asset has been arranged for delivery (**618**).

After the digital asset has been arranged for delivery (**618**), method **500** can determine (**620**) whether download is to be initiated or whether the automatic download is to be cancelled (**622**) before the download is initiated. Accordingly, an automatic download can be canceled (**624**) before it is initiated. When it is determined (**620**) that an automatic download is to be initiated, automatic download of the digital asset can be facilitated (**626**). An automatic download can, for example, be initiated when an electronic device initiates it and/or one or more delivery conditions are met (e.g., network type or bandwidth is appropriate for download). It should be noted that it can be determined (**628**) to cancel a download after it has been facilitated (**626**). In addition, it can be determined (**630**) whether to end method **600**. Method **600** can, for example, end after the arranged automatic downloads have been completed or canceled, or after a determined amount of time has lapsed.

FIG. **7** depicts a method **700** for facilitating automatic downloading of a digital asset in accordance with yet another exemplary embodiment. Method **700** can, for example, be used by the automatic acquisition component **500** depicted in FIG. **5**. As such, method **600** can, for example, be performed by an electronic device in order to facilitate automatic download of a digital asset available for purchase from an online server.

Referring to FIG. **7**, initially, it is determined (**702**) whether an indication (e.g., content pushed by a server) relating to an automatic download feature has been received. In effect, method **700** can wait to receive an indication. The indication can, for example, pertain to a configuration option, UI, or availability of one or more digital assets for download. As such, if it is determined (**702**) that an indication has been received, it can be determined (**704**) whether to process the indication and/or data associated with the indication. By way of example, a UI or configuration menu can be displayed and/or possibly stored. Generally, if it is determined (**704**) to process data associated with the indication, data can be processed and possibly stored (**706**).

Thereafter, it can be determined (**708**) whether the indication is associated with availability of a digital asset for download. If it is determined (**708**) that the indication is not associated with availability of digital asset for download, it can be determined (**710**) whether to send a notification or acknowledgement regarding the indication received or possibly other data related to automatic downloading of digital assets. Accordingly, data can be sent (**712**) before the method **700** ends. However, if it is determined (**708**) that the indication is associated with the availability of a digital asset for download, validity of the indication can be verified (**714**). By way of example, it can be determined (**714**) whether the digital asset available for automatic download is supported by the electronic device. If it is determined (**714**) that the validity of the digital asset to be downloaded is not successfully verified, it can be determined (**710**) whether to send a notification or other data regarding the indication. Accordingly, a notification regarding the invalidity of the automatic download, a cancelation request and/or other data can be sent (**712**) before the method **700** ends.

On the other hand, if the validity of the download is successfully verified (**714**), it can be determined (**716**) whether to initiate downloading the digital asset. Accordingly, downloading of the digital asset can be initiated (**718**). However, if it is determined (**720**) to cancel the download, download can be canceled (**722**) after it has been initiated (**718**). After the download has been canceled (**722**), or once it is determined (**724**) that the download has been completed, it can be determined (**726**) to perform post processing (or post download processing). Accordingly, one or more post processing operations can be performed (**728**). For example, the digital asset that has been downloaded can be installed, added to a library, or removed. Method **700** can end after post processing (**728**) has been performed or without performing post processing if it is determined (**726**) not to perform post processing.

As noted above, automatic download configuration data (e.g., menus, dialogs, windows) can be created and provide in a customized manner. To further elaborate, FIG. **8** depicts an automatic download configuration generator **800** in accordance with one embodiment. Automatic download configuration generator **800** can be provided at least in part by a server associated with an online store and/or by an electronic device operable to acquire digital assets from server devices. Referring to FIG. **8**, various electronic devices **802** can be associated with a user **804**. Devices **802***a* and **802***b* may, for example, be of the same type (e.g., two smartphones, two devices capable of media playback) as opposed to devices **804***c* and **804***d* which can be of different types or have different capabilities (e.g., a laptop computer and a portable media player without a display). In any case,

various types of digital assets **806** can be available for purchase from an online store accessible to the devices **802**. Further, a digital asset (e.g., video, image, application program, etc.) may have a particular format or version supported by a particular device. By way of example, media asset **806***a* may be currently supported by device **802***a* but not currently supported by the device **802***b*. In any case, the automatic download configuration generator **800** can take digital asset types and device types into consideration and generate automatic configuration user interfaces **808** (e.g., **808***a* and **808***b*) that are more appropriate for each one of the devices **802**. It should be noted that user input and/or preferences **810** as well as other criteria **812** (e.g., network type, connectivity and/or bandwidth) can also be considered by the automatic download configuration generator **800** in generating an automatic download configuration UI. Generally, a relatively large number of possible automatic download parameters or options can be made available. However, the automatic download configuration generator **800** can effectively eliminate a number of possible automatic download parameters or options that may not be applicable or desired for a particular device to, for example, create a more suitable automatic download configuration user interface **808***a* (e.g., configuration window) for a device **802***a*, or a more suitable download configuration user interface **808***b* (e.g., configuration window) for device **2**.

To elaborate even further, FIG. **9** depicts an exemplary automatic configuration UI in form of a window **900** suitable for display on various electronic devices. Referring to FIG. **9**, automatic download options (or switches) for assets purchased for a fee (or acquired for free) are provided in the window **900**. It should be noted that automatic download options of window **900** can be provided based on asset types that may be applicable to a particular electronic device. As such, "Music," "Apps," and "Books" can be presented as selectable options in window **900** to the user. However, it should be noted that if an electronic device, for example, does not have the ability to use "Apps" or "Books," then only a "Music" option may be displayed for that electronic device. Alternatively, more media types (e.g., movies) may be disabled as selectable options if applicable. Referring to FIG. **9**, a network automatic download option can also be provided as a selectable option ("Cellular") to effectively allow the user to select whether the automatic downloads should take place via a cellular network (which may have a data transfer fee). If the selectable option is set to "off", then automatic download will only occur when the electronic device is connected to a Wi-Fl connection. It should also be noted that a selected automatic download option can be provided to an online store server. In doing, the user may be required to sign in to a user account via a particular device to effectively register or submit the selected automatic downloads options pertaining to the electronic device. Hence, an online store server may be able to keep track of various registered electronic devices and their respective automatic downloads options.

Generally, when a digital asset, and in particular a media asset is acquired by purchase (for a fee or for free) from an online store using a first electronic device associated with the user, an online store server can effectively put the digital asset in the queue for delivery for all the electronic devices registered to the user with the appropriate settings for the automatic download selected. However, the number of electronic devices a user can register for automatic download may be limited or additional cost may be imposed beyond a determined number of registered devices. In any case, the online store server can send a push notification to each device selected to receive the automatic download. A push notification can instruct a recipient electronic device to transparently check its delivery queue without requiring explicit user input, feedback or instructions. As such, one or more electronic devices registered to the user (possibly all devices registered to the user) can check their respective delivery (purchase or acquisition) queues and download the one or more digital assets via a background process, and in particular, from the perspective of person using the electronic device. Various rules can be defined and effectively applied to an automatic download option or feature. For example, automatic downloads can be made to have lower priority than downloads that are explicitly requested by a user, duplication of digital assets can be avoided, arranged downloaded can be canceled or automatically downloaded digital assets can be removed, etc.

As noted above, automatic download configuration can be presented as one or more selectable options or switches that can be enabled or disabled. The selectable options and switches for allowing automatic download may initially (or as a default option) be turned off so as not to allow automatic download. Further, a system can be configured so that signing out of an account causes an automatic download option to be turned off, or an option may automatically get turned off after a determined period of time, requiring a user to log back in order to turn on the automatic download option again.

Furthermore, current system capability, including disk space as well as size of the digital asset can be considered in determining whether to automatically download an asset so that, for example, a digital asset over a predetermined size (e.g., 10 Megabytes (MB), 3 Gigabytes (GB)) may not be automatically downloaded, and/or a digital asset may be downloaded only if there is a predetermined amount of free space (e.g., 100 GB) is available on the electronic device. In addition, various restrictions, including parental controls, blocked items or sources, can be considered in determining whether to automatically download a digital asset to a particular device. Still further, a system can be configured such that disabling an enabled automatic download option may result in immediate removal of digital assets queued for automatic download. Other features may be configured including, resumption of interrupted automatic downloads as a result of an electronic device getting disconnect or getting engaged in higher priority activities during the download. An electronic device that has been off for a relatively long time (e.g., six months) can be allowed to automatically download digital assets that have been queued for the electronic device. However, a time limit for making an asset available for automatic download can also be effectively imposed (e.g., six months for all assets, one month for relatively large assets). In addition, a new or revised version of an asset can be effectively automatically downloaded if available at the time the download takes place. In other words, an older version of an asset may be replaced in a delivery queue for automatic download so that a new or revised version can be downloaded. An informative or discovery dialog can be presented as soon as an electronic device is purchased to inform the user of availability of an automatic download feature. As another optional feature, explicit purchase of an asset to be automatically downloaded would not result in downloading the asset twice.

Generally, it may be more desirable to configure an online store server to have control or more control over some aspects of automatic download than the user. For example, an online store server can determine never to allow automatic download of an asset that is not supported by a

particular device. As an example, an iPhone™ device may be effectively prevented from receiving an iPad™ application. As another example, online store server can determine when various user interfaces including dialogs and configuration windows are to be displayed. In addition, the online store server can determine the substance and form of the configuration options so that future changes can be implemented without having to alter numerous electronic devices that interact with the online store server.

Furthermore, it should be noted that changes to a device or its configuration can result in changes in automatic downloaded configuration options and behavior. By way of example, if a particular type (or form) of digital assets (e.g., books) is no longer viable for (or supported by) an electronic device because of a change to the device (e.g., book reading/presenting application has been uninstalled) the digital asset type (e.g., Books) would no longer be automatically downloaded to the device and the configuration window for the device would not show the digital asset type as an option for download as long as the digital asset type is not viable for (or supported by) the device. Alternatively, a user interface can be used to suggest or facilitate download of a book reading application.

In view of the foregoing, it will readily be known that an electronic device provided in accordance with one or more embodiments can, for example, be a computing device (e.g., personal computer), mobile phone (e.g., cellular phone), personal digital assistant (PDA), media player (e.g., music, videos, games, images), media storage device, camera, and/or the like. An electronic device may also be a multi-functional device that combines two or more of these device functionalities into a single device. A portable electronic device may support various types of network communications.

A portable electronic device can be provided as a hand-held electronic device. The term hand-held can generally refer to an electronic device with a form factor that is small enough to be comfortably held in one hand. A hand-held electronic device may be directed at one-handed operation or two-handed operation. In one-handed operation, a single hand is used to both support the device as well as to perform operations with the user interface during use. In two-handed operation, one hand is used to support the device while the other hand performs operations with a user interface during use or alternatively both hands support the device as well as perform operations during use. In some cases, the hand-held electronic device is sized for placement into a pocket of the user. By being pocket-sized, the user does not have to directly carry the device and therefore the device can be taken almost anywhere the user travels (e.g., the user is not limited by carrying a large, bulky and often heavy device).

Digital media assets (e.g., digital media items) can, for example pertain to video items (e.g., video files or movies), audio items (e.g., audio files or audio tracks, such as for songs, musical albums, podcasts or audiobooks), or image items (e.g., photos). The digital media assets can also include or be supplemented by text or multimedia files.

Additional information on digital asset delivery is provided in U.S. patent application Ser. No. 11/849,711, filed Sep. 4, 2007, and entitled "Digital Asset Delivery to Different Devices," which is hereby incorporated herein by reference. The corresponding U.S. Patent Publication 2009/0063301 A1 is also hereby incorporated herein by reference.

The various aspects, features, embodiments or implementations of the invention described above can be used alone or in various combinations.

The invention is preferably implemented by software, hardware, or a combination of hardware and software. The invention can also be embodied as computer readable code on a computer readable medium. The computer readable medium is any data storage device that can store data which can thereafter be read by a computer system. Examples of the computer readable medium generally include read-only memory and random-access memory. More specific examples of computer readable medium are tangible and include Flash memory, EEPROM memory, memory card, CD-ROM, DVD, hard drive, magnetic tape, and optical data storage device. The computer readable medium can also be distributed over network-coupled computer systems so that the computer readable code is stored and executed in a distributed fashion.

The advantages of various embodiments of the invention are numerous. Different aspects, embodiments or implementations may, but need not, yield one or more of the following advantages. One advantage of at least some embodiments is that a digital asset (e.g., media item) acquired by one device can be automatically delivered to other electronic devices without requiring user participation beyond initial setup. Another advantage at least some embodiments is that digital assets can be automatically delivered to appropriate electronic devices. Still another advantage at least some embodiments is that user preferences can be easily set and accommodated. Yet another advantage at least some embodiments is that customized user interfaces can be provided in consideration of various criteria, including device capabilities, user profiles and/or user preferences.

The many features and advantages of the present invention are apparent from the written description. Further, since numerous modifications and changes will readily occur to those skilled in the art, the invention should not be limited to the exact construction and operation as illustrated and described. Hence, all suitable modifications and equivalents may be resorted to as falling within the scope of the invention.

What is claimed is:

1. A method comprising:

detecting, by a processor of a server device corresponding to an online store, that a first digital asset has been acquired from the online store by an acquisition device associated with a first user account;

arranging, by the processor, delivery of the first digital asset to the acquiring device by the online store;

determining, by the processor, that a second electronic device, other than the acquisition device, is associated with the first user account;

receiving, by the processor, automatic download options data for the second electronic device indicating user selected media types that should be automatically downloaded to the second electronic device;

based on the automatic download options data for the second electronic device, determining, by the processor, that the first digital asset corresponds to a media type that should be automatically downloaded to the second electronic device;

arranging, by the processor, based on the determination, delivery of the first digital asset to the second electronic device by the online store when the first digital asset corresponds to a media type that the automatic download options data indicates should be automatically downloaded to the second electronic device; and

preventing the second device from downloading the first digital asset when the first digital asset is a media type

that the automatic download options data indicates should not be automatically downloaded to the second electronic device.

2. The method of claim **1**, wherein the arranging delivery to the second electronic device does not require a user request after the digital asset has been acquired via the acquisition device.

3. The method of claim **1**, wherein the arranging delivery to the second electronic device automatically delivers the first digital asset to the second electronic device.

4. The method of claim **1**, wherein the acquisition of the first digital asset comprises purchasing the first digital asset from the online store.

5. The method of claim **1**, wherein the arranging delivery of the first digital asset to the second electronic device comprises:

determining that a Wi-Fi connection is established between the online store and the second electronic device; and

allowing the second electronic device to download the first digital asset over the Wi-Fi connection when the automatic download options data indicates that automatic downloading of digital assets over a cellular data connection is disabled for the second electronic device.

6. The method of claim **1**, wherein the second electronic device and the acquisition device are both registered to the first user account.

7. The method of claim **1**, wherein the arranging delivery of the first digital asset to the second electronic device comprises:

queuing the first digital asset in a delivery queue for delivery to the second electronic device; and

sending, to the second electronic device, a push notification indicative of the first digital asset being available for download from an online repository.

8. The method of claim **7**, wherein the queuing the first digital asset comprises:

prioritizing contents of the delivery queue associated with the second electronic device such that digital content explicitly requested by the first user account would be delivered to the second electronic device before the first digital asset acquired via the acquisition device.

9. The method of claim **1**, wherein the method further comprises:

sending an automatic download token to the second electronic device;

receiving the token from the second electronic device; and

thereafter, facilitating download of the first digital asset to the second electronic device.

10. The method of claim **1**, wherein the method further comprises one or more of the following:

storing automatic download data indicative of digital content to be downloaded automatically to the second electronic device;

facilitating cancellation of automatic downloads to the second electronic device; and

facilitating the removal or deletion of digital content downloaded to the second electronic device.

11. The method of claim **1**, wherein the method further comprises:

sending to the second electronic device at least one push indication indicative of availability of an automatic download option.

12. The method of claim **1**, wherein the method further comprises:

sending to the second electronic device at least one push indication indicative of availability of content for download.

13. The method of claim **1**, wherein the determining that the first digital asset should be delivered to the second electronic device is dependent upon at least one of: a device number limit, available network bandwidth, a device capacity, a device capability, a user preference, or a user input provided by a user.

14. The method of claim **1**, wherein the user selected media types include music.

15. The method of claim **1**, wherein the user selected media types include electronic books.

16. The method of claim **1**, wherein the user selected media types include movies.

17. The method of claim **1**, wherein the user selected media types include applications.

18. A non-transitory computer readable medium containing instructions that, when executed by a computing device, cause the computing device to:

detect, by the computing device corresponding to an online store, that a first digital asset has been acquired from the online more by an acquisition device associated with a first user account;

arrange delivery of the first digital asset to the acquiring device by the online store;

determine that a second electronic device, other than the acquisition device, is associated with the first user account;

receive automatic download options data for the second electronic device indicating user selected media types that should be automatically downloaded to the second electronic, device;

based on the automatic download options data for the second electronic device, determine that the first digital asset corresponds to a media type that should be automatically downloaded to the second electronic device;

arrange, based on the determination, delivery of the first digital asset to the second electronic device by the online store when the first digital asset corresponds to a media type that the automatic download options data indicates should be automatically downloaded to the second electronic device; and

prevent the second device from downloading the first digital asset when the first digital asset is a media type that the automatic download options data indicates should not be automatically downloaded to the second electronic device.

19. The non-transitory computer readable medium of claim **18**, wherein the instructions that cause the computing device to arrange delivery to the second electronic device include instructions that deliver the first digital asset to the second electronic device without a user request after the digital asset has been acquired via the acquisition device.

20. The non-transitory computer readable medium of claim **18**, wherein the instructions that cause the computing device to arrange delivery to the second electronic device include instructions that automatically deliver the first digital asset to the second electronic device.

21. The non-transitory computer readable medium of claim **18**, wherein the instructions that cause the computing device to detect the acquisition of the first digital asset include instructions that cause the computing device to detect the purchase of the first digital asset from the online store.

22. The non-transitory computer readable medium of claim **18**, wherein the instructions that cause the computing device to arrange delivery of the first digital asset to the second electronic device include instructions that cause the computing device to:

determine that a Wi-Fi connection is established between the online store and the second electronic device; and

allow the second electronic device to download the first digital asset over the Wi-Fi connection when the automatic download options data indicates that automatic downloading of digital assets over a cellular data connection is disabled for the second electronic device.

23. The non-transitory computer readable medium of claim **18**, wherein the second device and the acquisition device are both registered to the first user account.

24. The non-transitory computer readable medium of claim **18**, wherein the instructions that cause the computing device to arrange delivery of the first digital asset to the second electronic device include instructions that cause the computing device to:

queue the first digital asset in a delivery queue for delivery to the second electronic device; and

send, to the second electronic device, a push notification indicative of the first digital asset being available for download from an online repository.

25. The non-transitory computer readable medium of claim **24**, wherein the instructions that cause the computing device to queue the first digital asset include instructions that cause the computing device to:

prioritize content of the delivery queue associated with the second electronic device such that digital content explicitly requested by the first user account is delivered to the second electronic device before the first digital asset acquired by the acquisition device.

26. The non-transitory computer readable medium of claim **18**, wherein the instructions cause the computing device to:

send an automatic download token to the second electronic device;

receive the token from the second electronic device; and

thereafter, facilitate download of the first digital asset to the second electronic device.

27. The non-transitory computer readable medium of claim **18**, wherein the instructions cause the computing device to perform one of the following:

store automatic download data indicative of digital content to be downloaded automatically to the second electronic device;

facilitate cancellation of automatic downloads to the second electronic device; and

facilitate the removal or deletion of digital content downloaded to the second electronic device.

28. The non-transitory computer readable medium of claim **18**, wherein the instructions cause the computing device to:

send the second electronic device at least one push indication indicative of availability of an automatic download option.

29. The non-transitory computer readable medium of claim **18**, wherein the instructions cause the computing device to:

send the second electronic device at least one push indication indicative of availability of content for download.

30. The non-transitory computer readable medium of claim **18**, wherein the instructions that cause the computing device to determine that the first digital asset should be delivered to the second electronic device is dependent upon at least one of: a device number limit, available network bandwidth, a device capacity, a device capability, a user preference, or a user input provided by a user.

31. The non-transitory computer readable medium of claim **18**, wherein the user selected media types include music.

32. The non-transitory computer readable medium of claim **18**, wherein the user selected media types include electronic books.

33. The non-transitory computer readable medium of claim **18**, wherein the user selected media types include movies.

34. The non-transitory computer readable medium of claim **18**, wherein the user selected media types include applications.

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