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(54) **METHOD AND APPARATUS FOR WIRELESS DEVICES ACCESS TO EXTERNAL STORAGE**

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This patent is subject to a terminal disclaimer.

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Related U.S. Application Data

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(51) **Int. Cl.**
G06F 13/00 (2006.01)
G06F 3/06 (2006.01)

(52) **U.S. Cl.**
CPC *G06F 3/0631* (2013.01); *G06F 3/0604* (2013.01); *G06F 3/067* (2013.01); *G06F 2003/0697* (2013.01)

(58) **Field of Classification Search**
CPC G06F 3/067; G06F 3/0604; G06F 3/0631; G06F 2003/0697
USPC 711/111, 114, 147, 171; 709/219, 226; 707/795, 802
See application file for complete search history.

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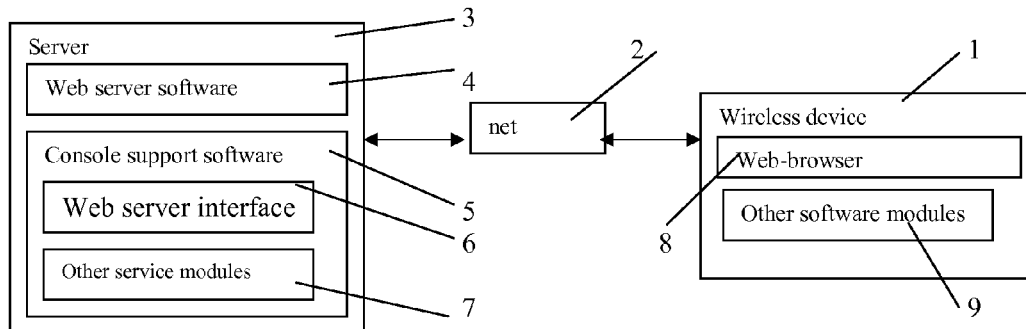|				
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Primary Examiner — Reba I Elmore

(57) **ABSTRACT**

Traditionally, wireless device, such as cell phone or personal data assistant device (PDA), has relatively smaller storage capacity. Therefore, it is quite often that a user of the wireless device has difficulty to find more storage space for storing ever increased personal data, such as storing multiple Gig bytes of multimedia data including digital video, music, or photo picture etc. Instant application disclosed a system and method for a storage system providing storage service to the wireless device for the wireless device remotely storing personal data into an external storage space allocated exclusively to a user of the wireless device by the storage system.

20 Claims, 4 Drawing Sheets

Wireless devices supports in a simple environment

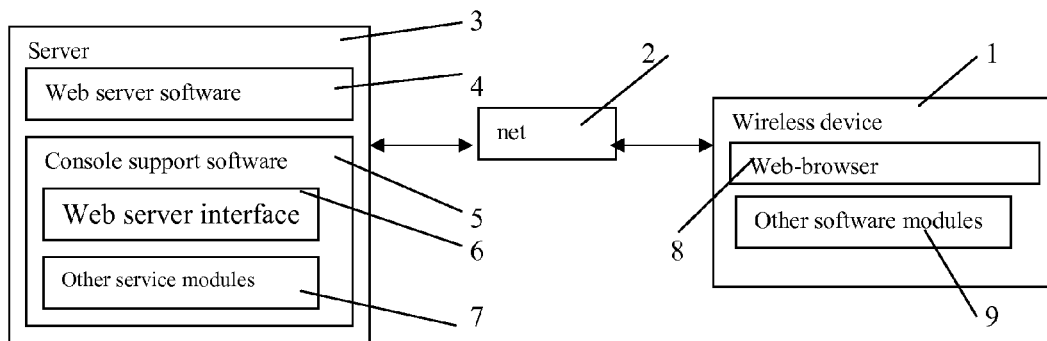**Wireless devices supports in a simple environment**

Fig. 1

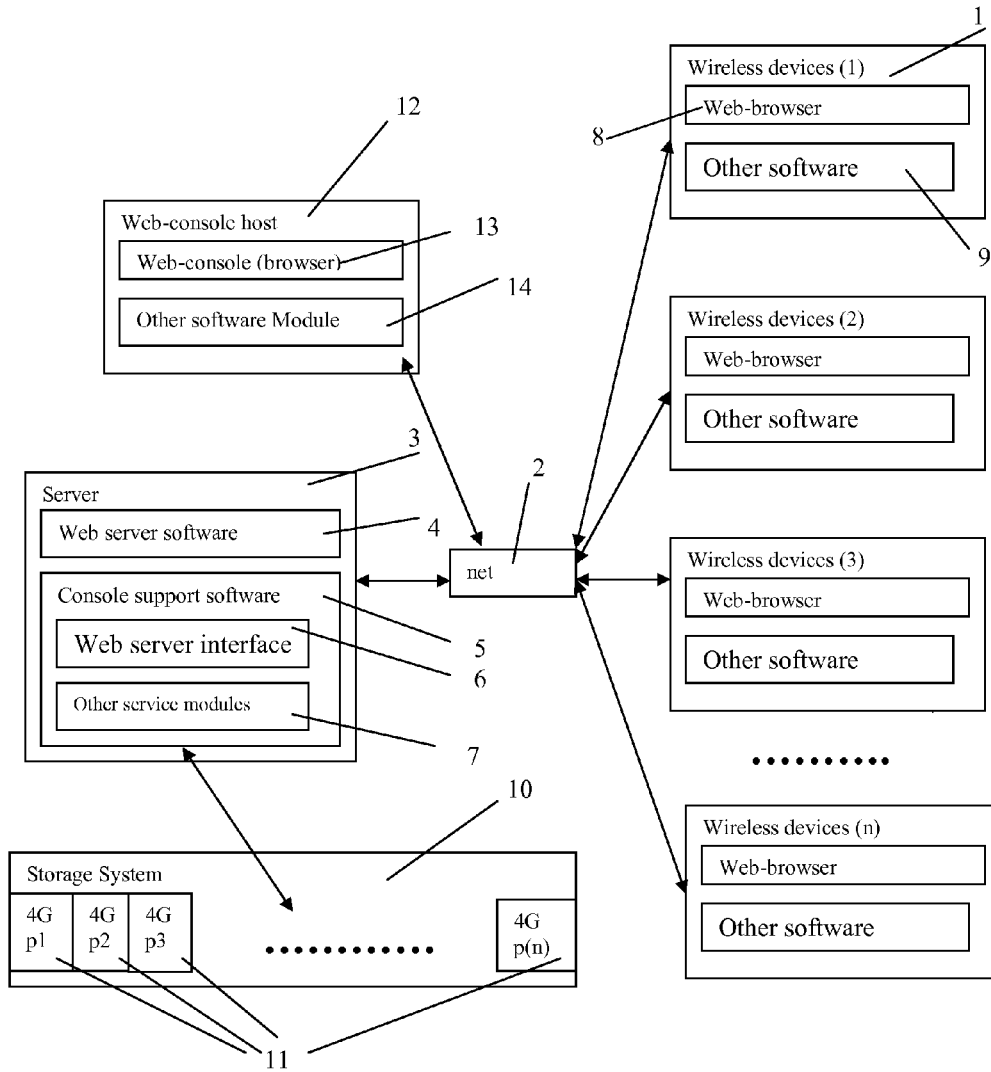**Wireless devices access external storage through web browser**

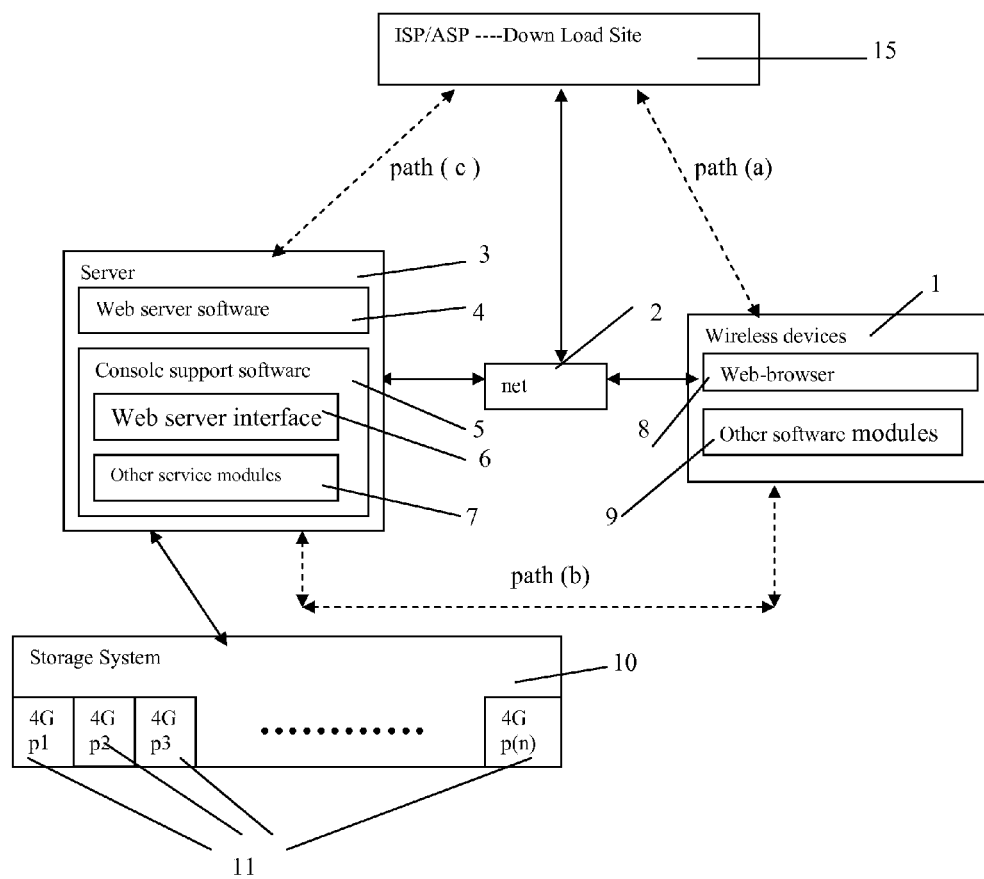
Fig. 2

Wireless out-band download

ISP/ASP ----Down Load Site   15

path (c)   path (a)

Server   3

Web server software   4

                                    2   1
Console support software   Wireless devices

Web server interface   net   Web-browser

                              5   8   Other software modules
Other service modules

                              6
                              7   9

                              path (b)

Storage System   10

| 4G p1 | 4G p2 | 4G p3 | · · · · · · · · · · · · | 4G p(n) |

                              11

Fig. 3

The CCDSVM Support External Device for Huge Number of Wireless Device

Storage server

Storage server

Storage server

Storage server

Storage server

Storage server

NET

Control Management station

Wireless device

Wireless device

Wireless device

Wireless device

Wireless device

Wireless device
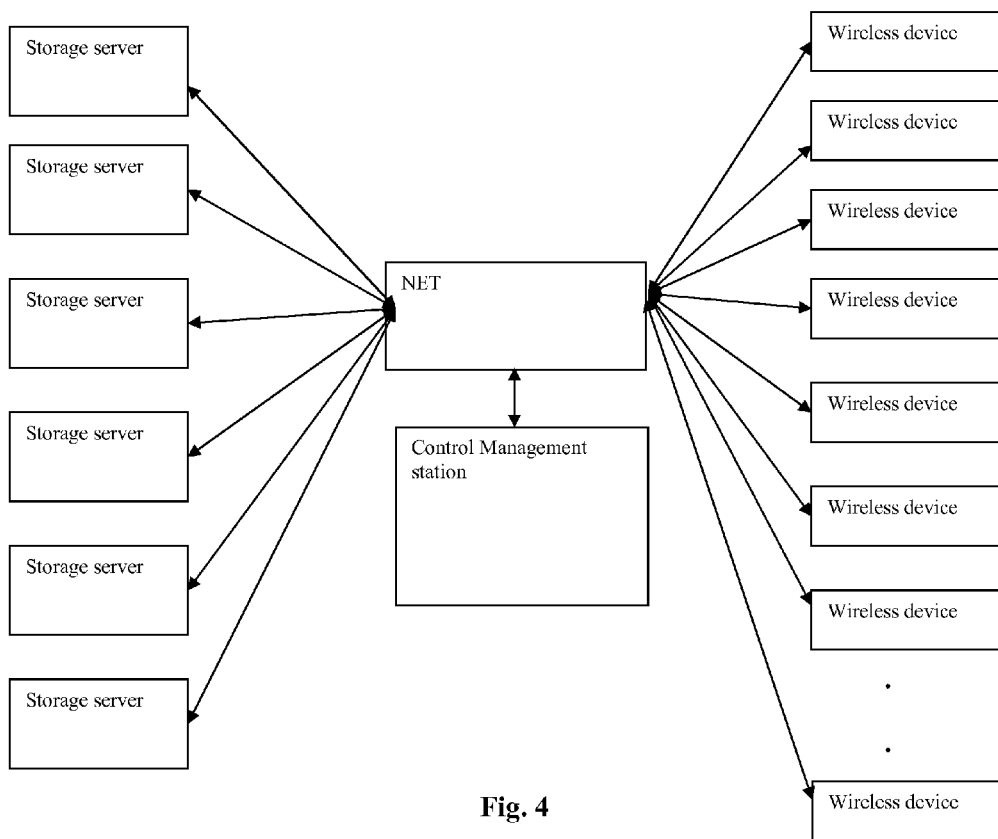
Wireless device

Wireless device

Fig. 4

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