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**Tsao**

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(54) **SYSTEM AND METHOD FOR WIRELESS DEVICE ACCESS TO EXTERNAL STORAGE**

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.  
  
This patent is subject to a terminal disclaimer.

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**Related U.S. Application Data**

(63) Continuation of application No. 14/079,831, filed on Nov. 14, 2013, which is a continuation of application No. 10/726,897, filed on Dec. 4, 2003, now Pat. No. 8,606,880.

(51) **Int. Cl.**  
**G06F 15/16** (2006.01)  
**G06F 17/30** (2006.01)

(52) **U.S. Cl.**  
CPC ..... **G06F 17/30194** (2013.01)

(58) **Field of Classification Search**

USPC ..... 709/219, 203, 226, 220, 200; 455/412, 455/899  
  
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

8,606,880	B2 *	12/2013	Tsao	709/219
2001/0052073	A1 *	12/2001	Kern et al.	713/161
2002/0104080	A1 *	8/2002	Woodard et al.	717/176
2002/0133597	A1 *	9/2002	Jhingan et al.	709/228
2003/0072031	A1 *	4/2003	Kuwata et al.	358/1.15
2004/0033821	A1 *	2/2004	Slesak et al.	455/575.1
2004/0186750	A1 *	9/2004	Surbey et al.	705/4
2014/0089360	A1 *	3/2014	Tsao	707/827

\* cited by examiner

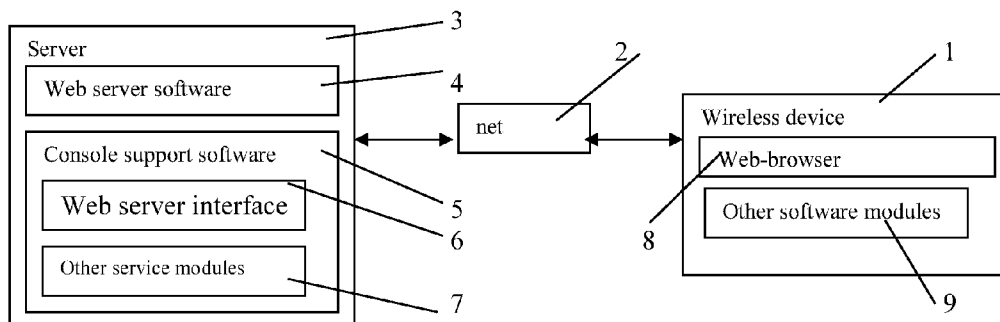
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(57) **ABSTRACT**

To meet the needs for storing larger volume personal information for user of wireless device, it is desire to provide extra storage space to the wireless device such as for cell phone or personal assistant device (PDA) etc due to the limited storage space that the wireless device has. Instant application disclosed a system and method for the wireless device to efficiently and effectively use remotely located storage space provided by a server for storing message or multimedia data such as videos, digital music, digital photo/picture.

**20 Claims, 5 Drawing Sheets**

**Wireless devices supports in a simple environment**



### Wireless devices supports in a simple environment

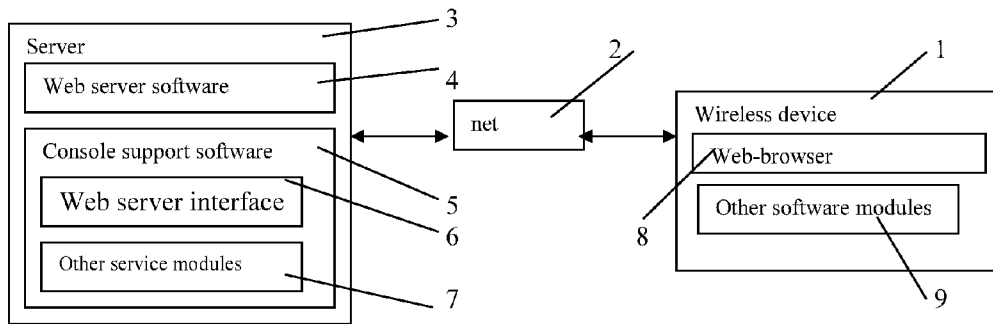


Fig. 1

Wireless devices access external storage through web browser

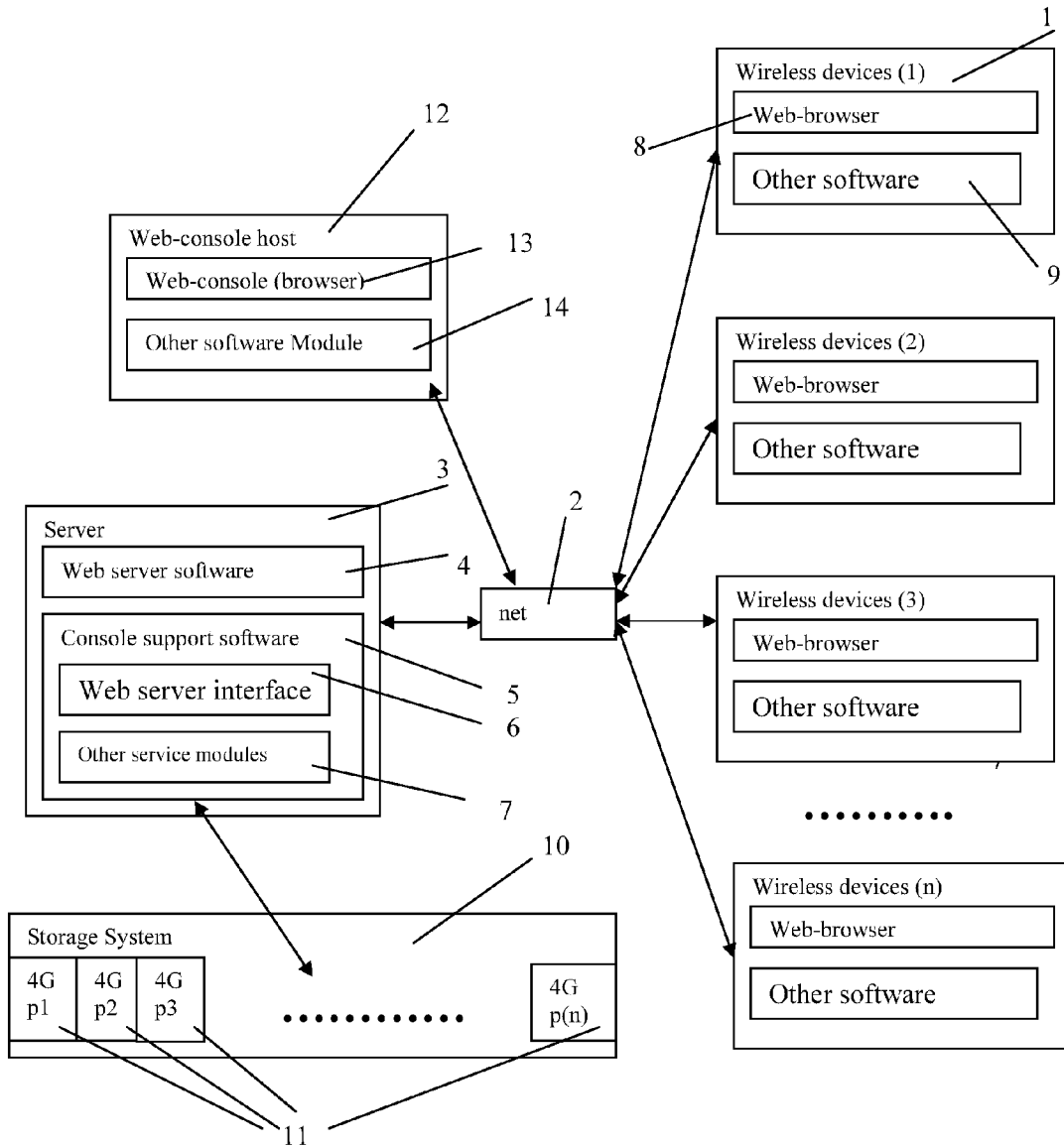


Fig. 2

Wireless out-band download

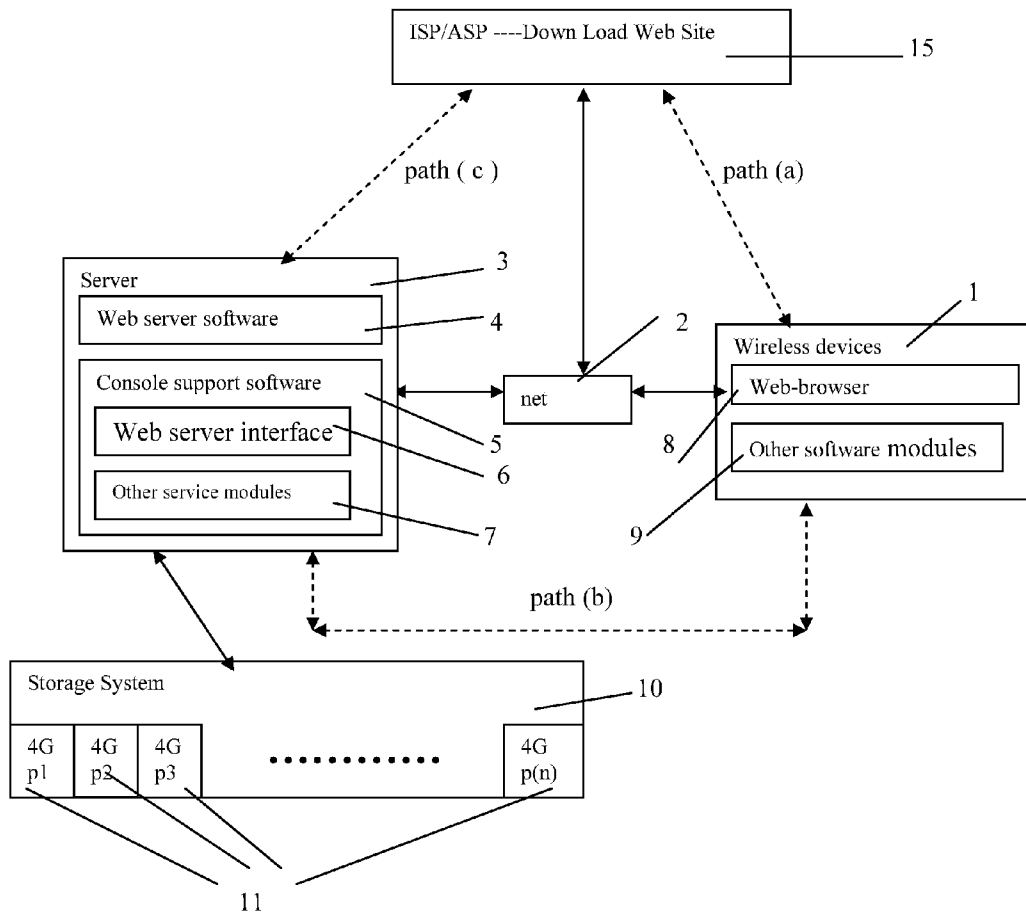


Fig. 3

The CCDSVM Support External Device for Huge Number of Wireless Device

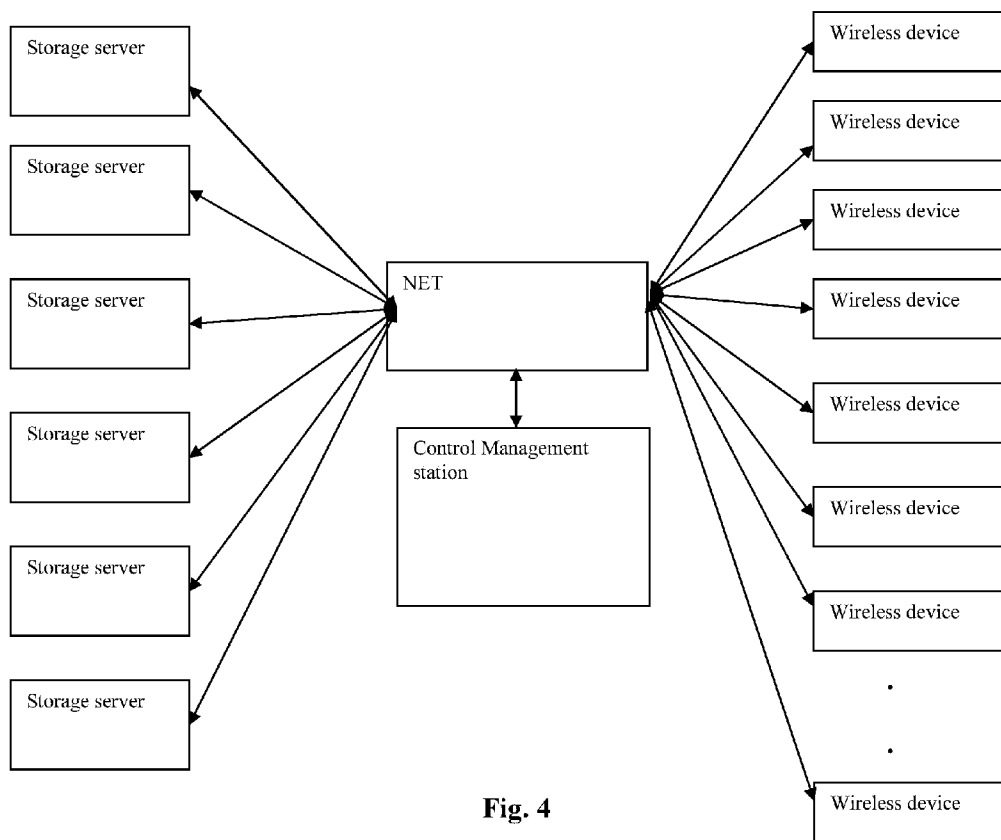


Fig. 4

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