

US009098526B1

# (12) United States Patent

## Tsao

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

- (71) Applicant: Sheng Tai (Ted) Tsao, Fremont, CA (US)
- (72) Inventor: Sheng Tai Tsao, Fremont, CA (US)
- (73) Assignee: Sheng Tai (Ted) Tsao, Fremont, CA (US)
- (\*) 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.

- (21) Appl. No.: 14/150,106
- (22) Filed: Jan. 8, 2014

#### **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)

# (10) Patent No.: US 9,098,526 B1

#### (45) **Date of Patent:** \*Aug. 4, 2015

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

\* cited by examiner

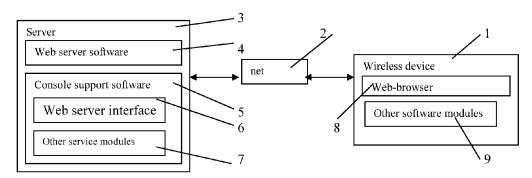
Primary Examiner — El Hadji Sall

#### (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

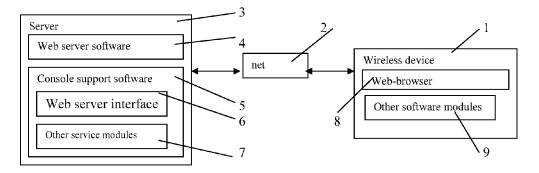


Fig. 1

**DOCKET A L A R M** Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

# Wireless devices access external storage through web browser

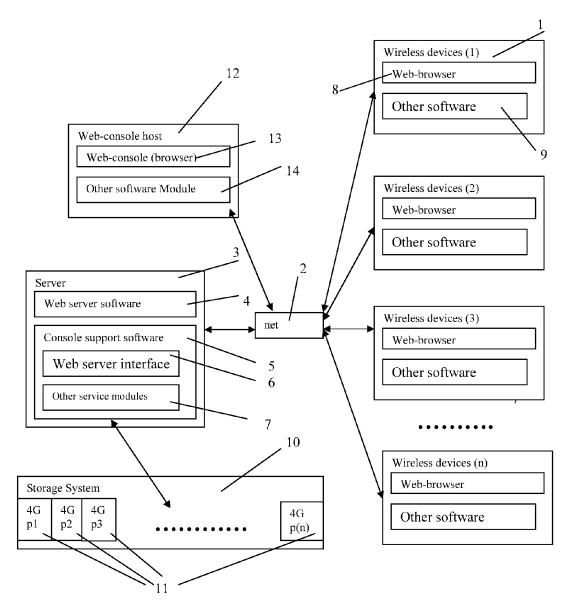


Fig. 2

## Wireless out-band download

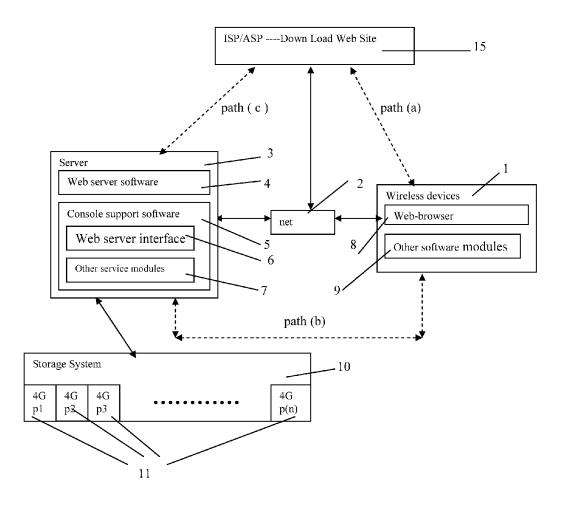
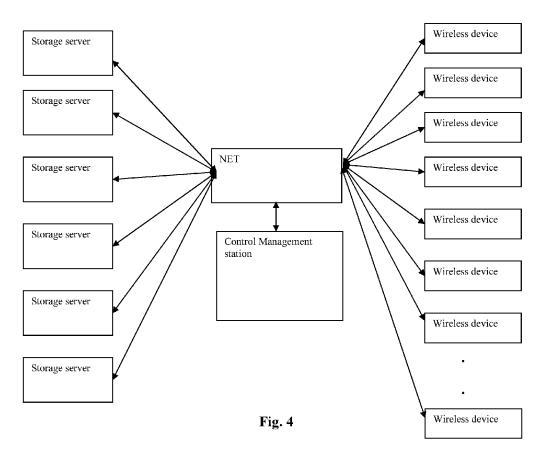


Fig. 3

**DOCKET A L A R M** Find authenticated court documents without watermarks at <u>docketalarm.com</u>.



The CCDSVM Support External Device for Huge Number of Wireless Device

**DOCKET A L A R M** Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

# DOCKET A L A R M



# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

# **Real-Time Litigation Alerts**



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

# **Advanced Docket Research**



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

# **Analytics At Your Fingertips**



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

# API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

# LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

# FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

# E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.