

## (12) United States Patent Broadwin et al.

# (45) **Date of Patent:** \*Aug. 14, 2001

US 6,275,989 B1

### (54) INTERACTIVE TELEVISION SYSTEM AND METHOD FOR DISPLAYING WEB-LIKE STILLS WITH HYPERLINKS

- (75) Inventors: Elliott Broadwin, Fremont; Jon C Haass, Belmont, both of CA (US)
- (73) Assignee: Opentv, Inc., Mountain View, 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.: 09/206,514
- (22) Filed: Dec. 7, 1998

#### **Related U.S. Application Data**

- (63) Continuation of application No. 08/675,636, filed on Jul. 1, 1996, now Pat. No. 5,903,816.
- (51) Int. Cl.<sup>7</sup> ...... H04N 7/173

#### (56) **References Cited**

### **U.S. PATENT DOCUMENTS**

4,924,303	*	5/1990	Brandon et al 348/7
5,027,400		6/1991	Baji et al
5,594,509		1/1997	Florin et al
5,689,799		11/1997	Dougherty et al
5,818,441	*	10/1998	Throckmorton et al 348/13
5,903,816	*	5/1999	Broadwin et al 455/3.1
5,929,850	*	7/1999	Broadwin et al 345/327
5,953,046	*	9/1999	Pocock 348/12

\* cited by examiner

en TV, End to End Enviroment (Satellite Network Example) 10Q 106 Encode 140 Multiplexe Return Channel (Phone Line) 156 Interactive Synchro nization Decode 150 102 152-🔟 Audio/Video Transaction Remote Control Broadcast Center Service Provider End Use

Primary Examiner—Chris Grant

(74) Attorney, Agent, or Firm—Conley, Rose & Tayon PC; Jeffrey C. Hood

### (57) **ABSTRACT**

(10) Patent No.:

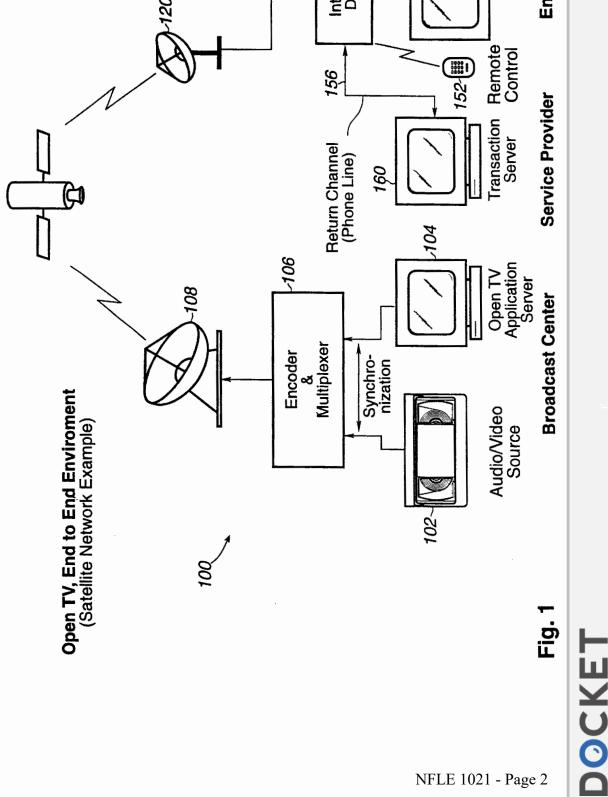
A system and method for displaying still video images related to video content in an interactive broadcast television system. The system and method of the present invention may also be used for simulating an Internet home page on an interactive television system. The present invention thus supports hyperlinked web-like navigational capabilities in an interactive television system. According to the method of the present invention, the video delivery system provides or broadcasts one or more audio/video channels each comprising video content and also provides or broadcasts at least one still image channel comprising a plurality of still video images, preferably MPEG-2 compressed still images. The user or viewer can select options displayed on the television screen to view desired information. When the set top box receives user input selecting an option to view one of the linked still images, the set top box captures the requested image from the still image broadcast channel, stores the image in memory, and displays the captured still video image corresponding to the selection. The still image being displayed may have associated interactive program content for displaying further selections, wherein these selections may be for viewing other images or content, for ordering information, or purchasing products. The user can thus selectively navigate between the video content and stills in a web-like hyperlinked fashion. In one embodiment, when a user is navigating through still images, the television program or video content which was being viewed is displayed in a small window overlaid on the still image being displayed. Also, when the set top box captures a requested image from the still image broadcast channel, the set top box preferably also pre-caches or pre-loads other related still images based on the probability that these related images will be subsequently requested by the user. The invention also includes an embodiment which provides user requested still images "on demand" on a dedicated "search" channel.

### 20 Claims, 19 Drawing Sheets

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

Find authenticated court documents without watermarks at docketalarm.com. κ Σ

٩

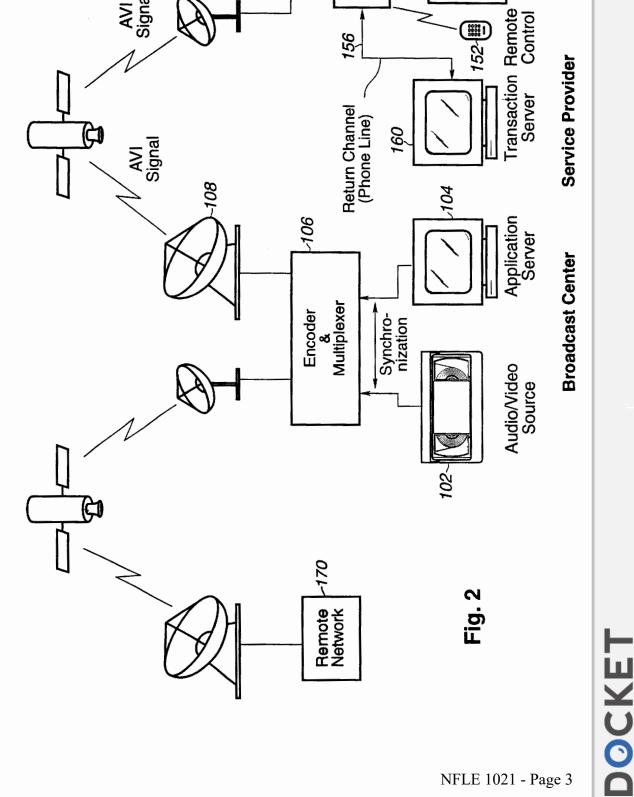


NFLE 1021 - Page 2

Find authenticated court documents without watermarks at docketalarm.com.

ς Σ

٩



NFLE 1021 - Page 3

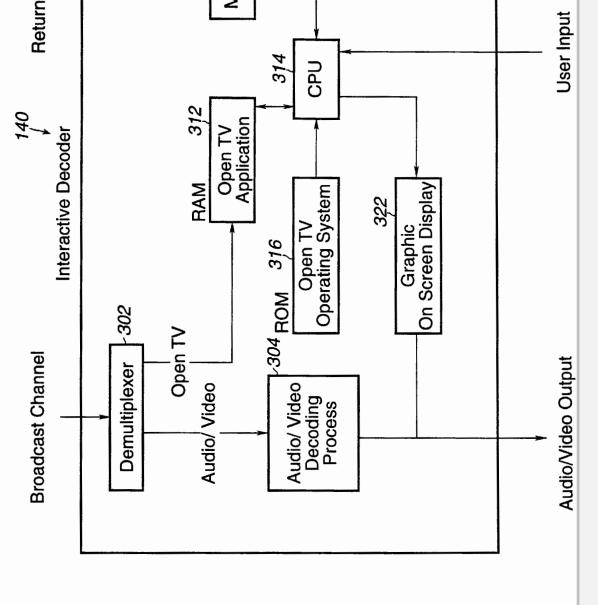
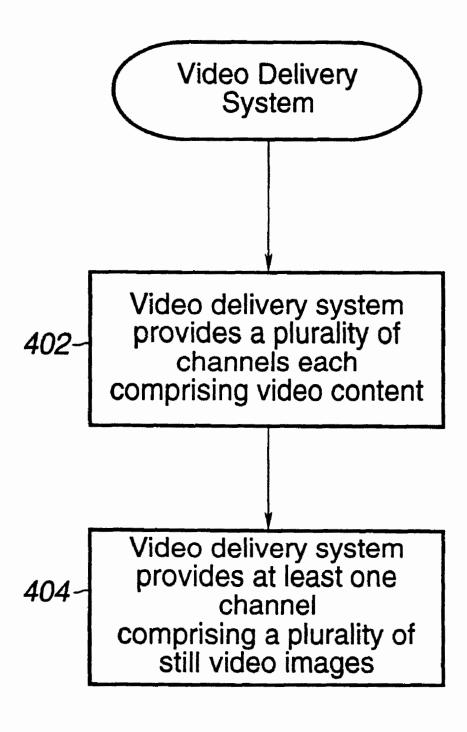


Fig. 3

NFLE 1021 - Page 4

ge 4

Find authenticated court documents without watermarks at docketalarm.com.



# Fig. 4

Find authenticated court documents without watermarks at docketalarm.com.

# 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.