



US007151575B1

(12) **United States Patent**  
**Landry et al.**

(10) **Patent No.:** **US 7,151,575 B1**  
(45) **Date of Patent:** **Dec. 19, 2006**

(54) **WIRELESS EXTENSION FOR CABLE TELEVISION SIGNALS**

(75) Inventors: **Michael William Landry**, San Diego, CA (US); **Itzhak Gurantz**, San Diego, CA (US)

(73) Assignee: **Entropic Communications, Inc.**, San Diego, CA (US)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 503 days.

(21) Appl. No.: **10/621,884**

(22) Filed: **Jul. 17, 2003**

**Related U.S. Application Data**

(60) Provisional application No. 60/397,056, filed on Jul. 18, 2002.

(51) **Int. Cl.**  
**H04N 5/38** (2006.01)  
**H04N 7/18** (2006.01)

(52) **U.S. Cl.** ..... **348/723; 725/81; 725/78**

(58) **Field of Classification Search** ..... **348/723, 348/724, 725; 725/81, 82, 78, 85**

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,682,195 A \* 10/1997 Hendricks et al. .... 725/31  
6,263,503 B1 \* 7/2001 Margulis ..... 725/81  
2002/0038459 A1 \* 3/2002 Talmola et al. .... 725/81

\* cited by examiner

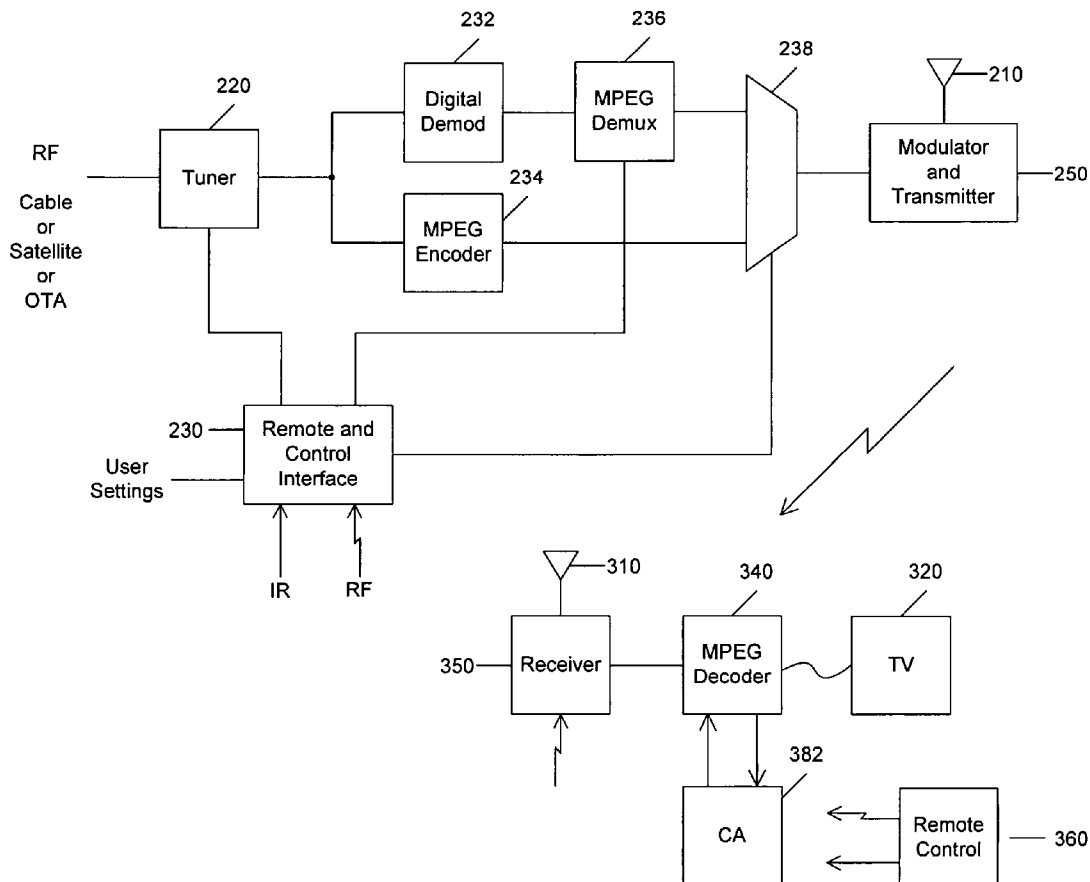
*Primary Examiner*—Michael H. Lee

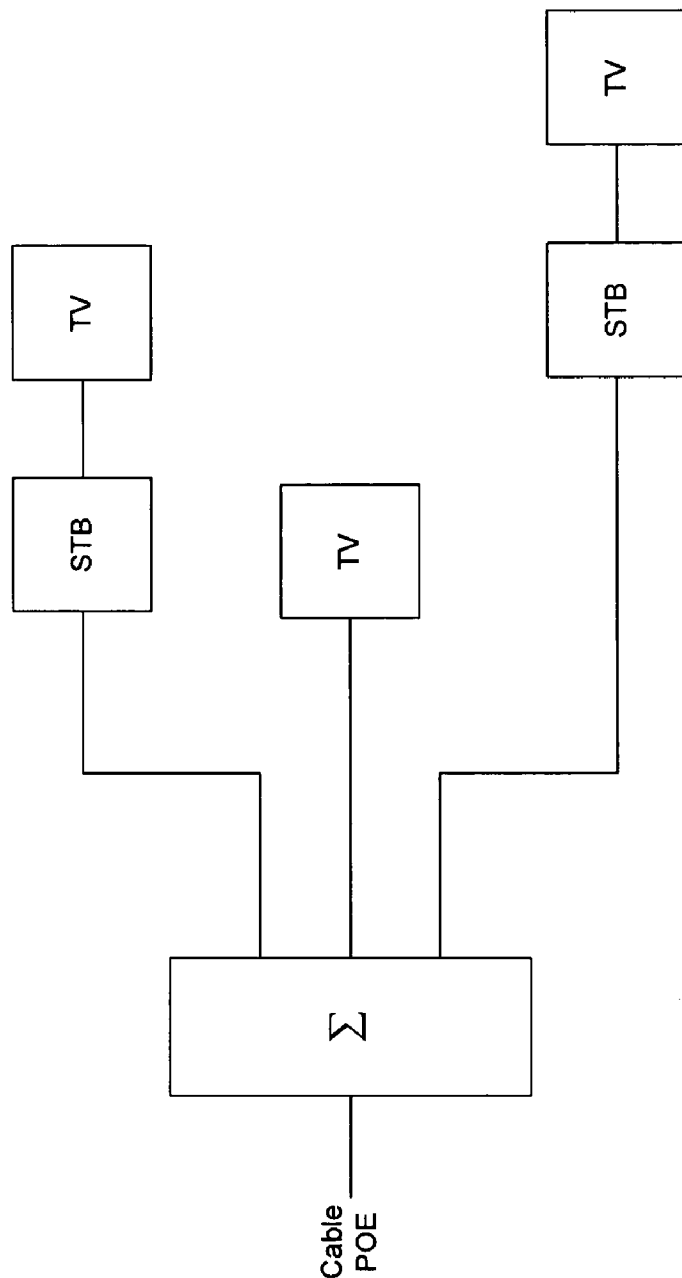
(74) *Attorney, Agent, or Firm*—Michael W. Landry

(57) **ABSTRACT**

A wireless link provides an extension to cable television signals for a television receiver that does not have access to a coaxial cable. Analog and digital cable channels are processed and transmitted over the wireless link. Security of the signal is provided by transmitting encrypted data and decrypting at the receiving node. The conditional access encryption inherent in the data can insure communication security or encryption may be performed at the transmitting node.

**5 Claims, 9 Drawing Sheets**





Prior Art

Fig. 1

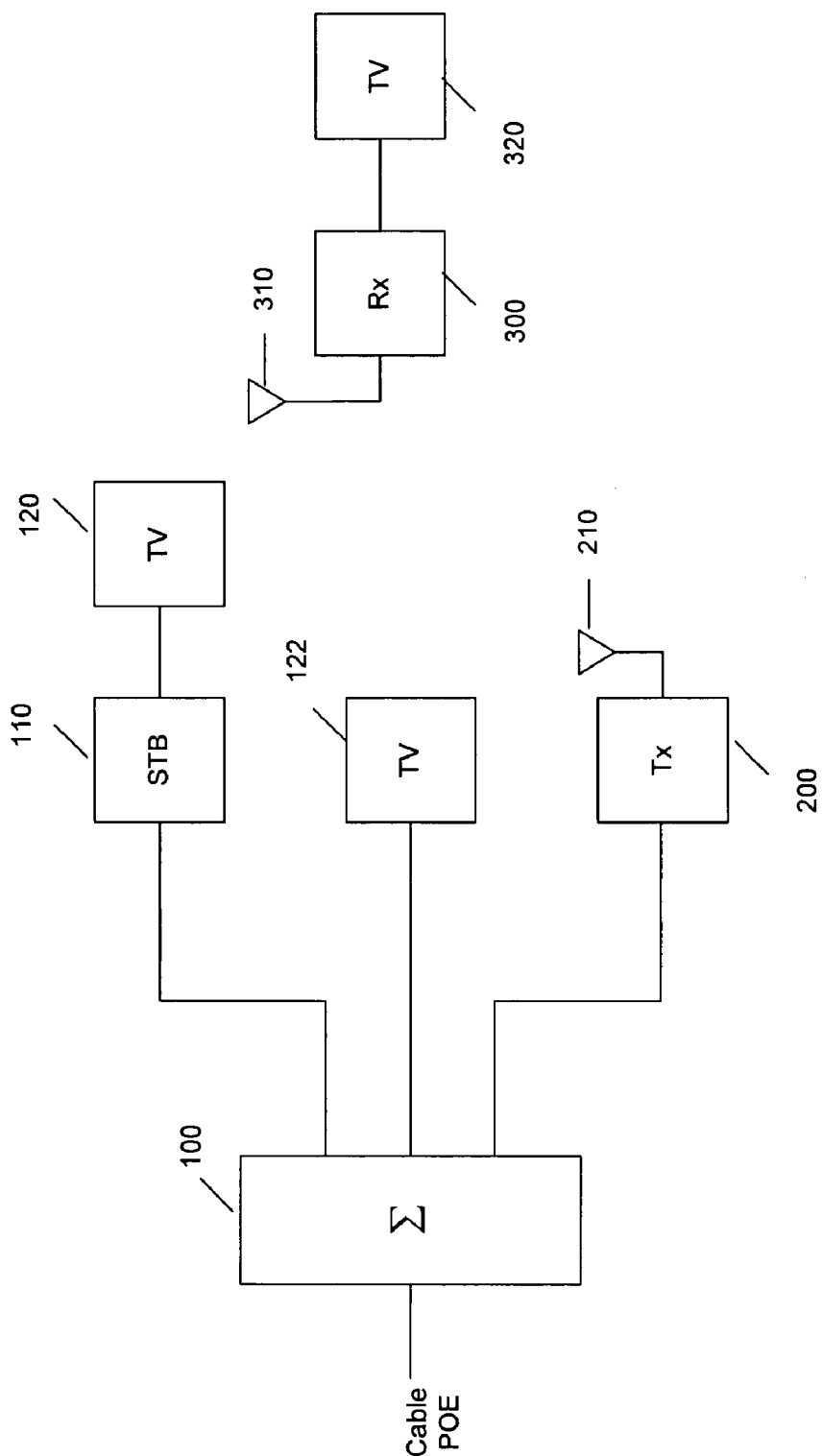


Fig. 2

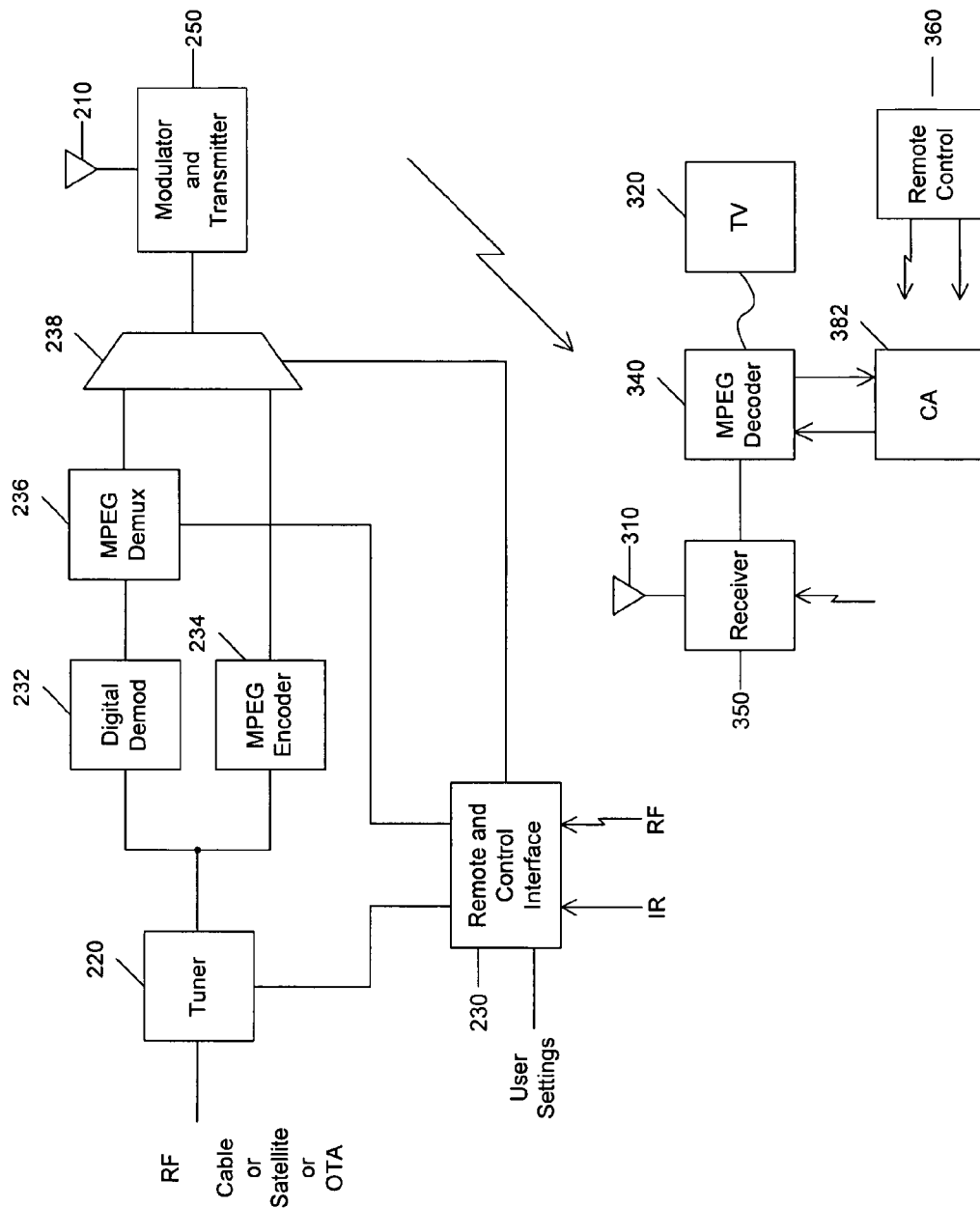


Fig. 3

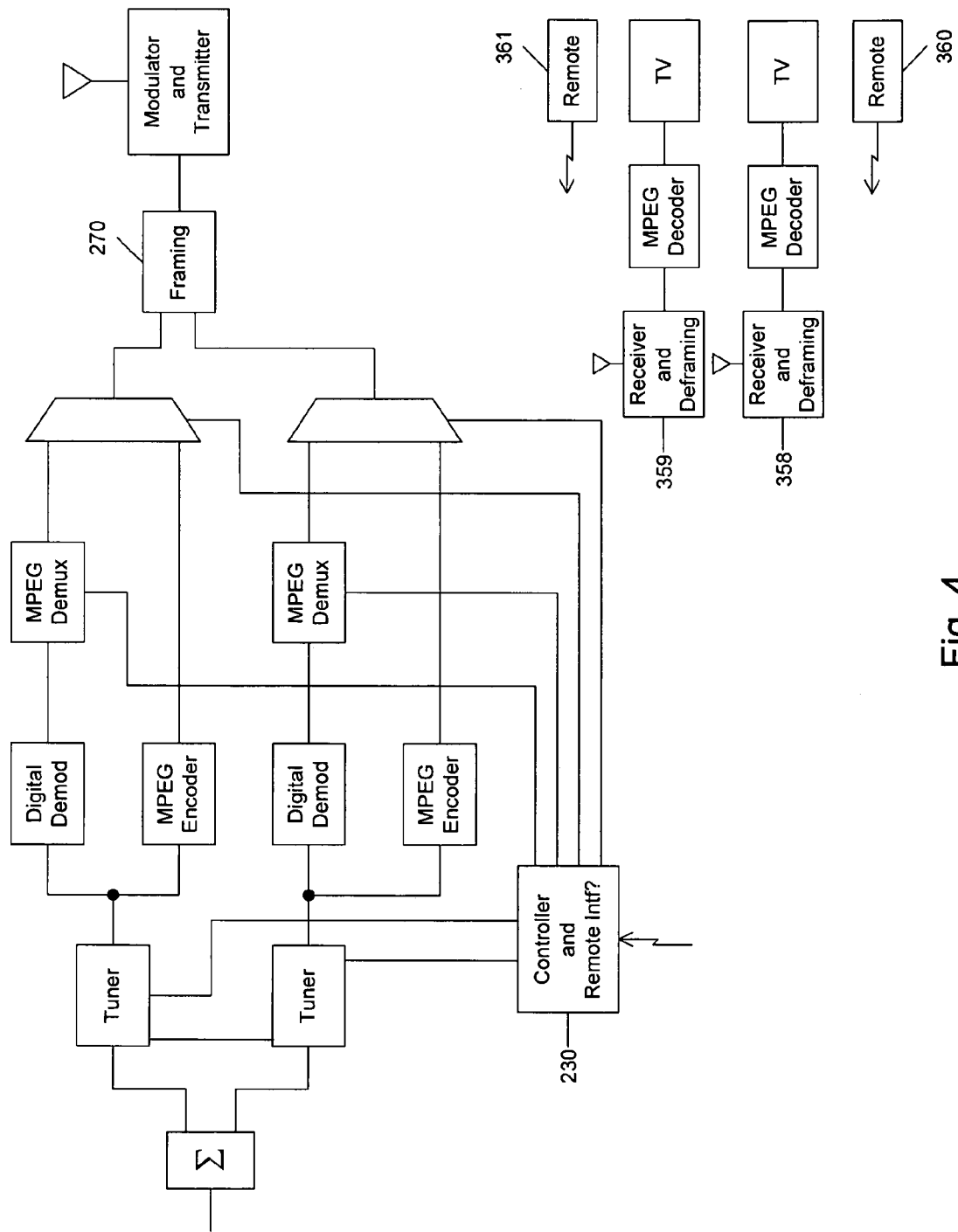


Fig. 4

# 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.