

US 20160037505A1

## (19) United States

## (12) Patent Application Publication Cookley

(10) **Pub. No.: US 2016/0037505 A1**(43) **Pub. Date:** Feb. 4, 2016

#### (54) **DIGITAL RADIO SYSTEM**

(71) Applicant: **Purdue Research Foundation**, West Lafayette, IN (US)

(72) Inventor: Todor V. Cooklev, Fort Wayne, IN (US)

(21) Appl. No.: 14/815,639

(22) Filed: Jul. 31, 2015

#### Related U.S. Application Data

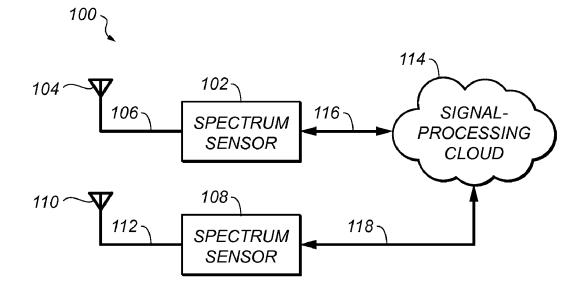
(60) Provisional application No. 62/031,807, filed on Jul. 31, 2014.

#### **Publication Classification**

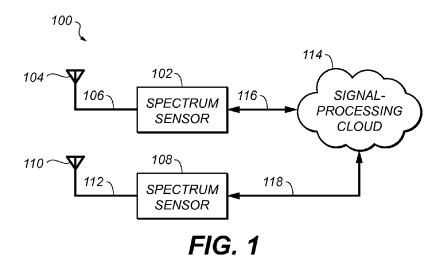
(51) Int. Cl. H04W 72/04 (2006.01) H04W 84/20 (2006.01) H04W 8/20 (2006.01) (52) **U.S. CI.** CPC ...... *H04W 72/0406* (2013.01); *H04W 8/20* (2013.01); *H04W 84/20* (2013.01)

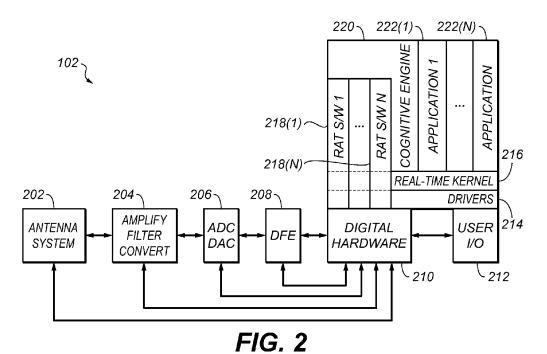
### (57) ABSTRACT

A thin radio client can include a radio frequency (RF) subsystem having a transmitter and/or a receiver. An interface can transmit and receive packets. The interface can reconfigure the transmitter in response to a received transmitter-control packet, reconfigure the receiver in response to a received receiver-control packet, or transmit a context packet including both data of a state of the transmitter and data of a state of the receiver. A digital back end can include an interface to exchange packets with an RF device. At least some of the received packets can specify capabilities of the RF device or state of the RF device. The back end can determine a control packet based on received packet(s) and on a policy governing behavior of the RF device, and transmit the control packet to the RF device. A method of operating a distributed radio system is described.

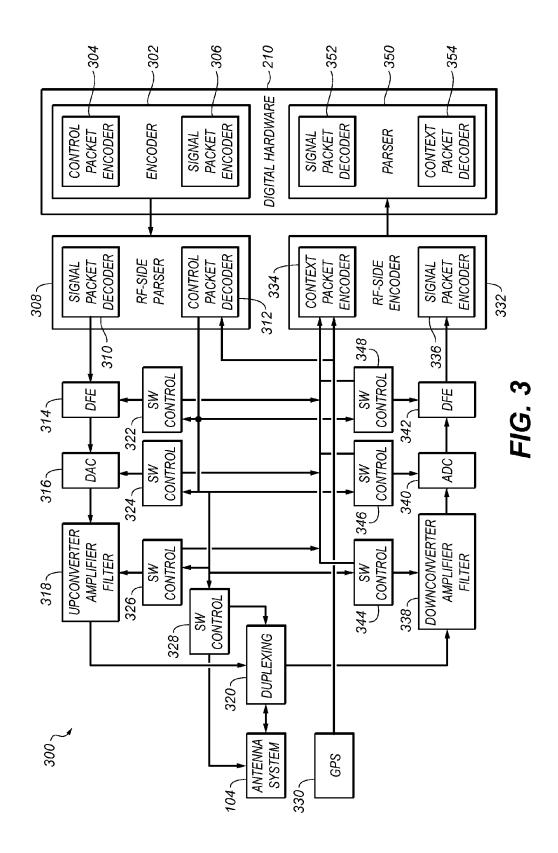




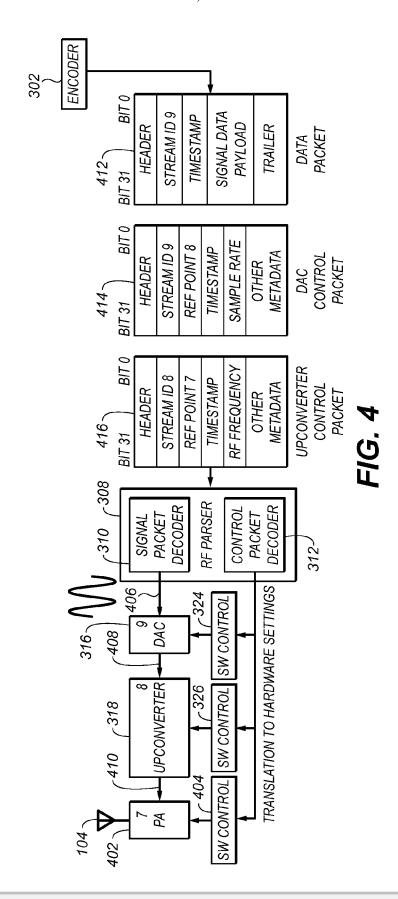


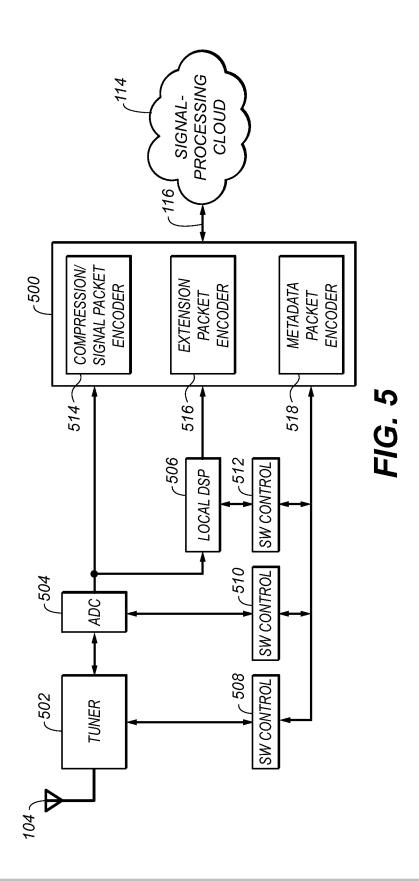














# DOCKET

## 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.

