

**PROVISIONAL PATENT APPLICATION  
SUBMITTED ON NOVEMBER 17, 2004**

**TITLE:**

**METHOD AND DEVICE FOR SAVING BANDWIDTH SENT TO A DIGITAL  
SET TOP BOX**

**INVENTOR:**

**ROLF MEIER  
NEPEAN, ONTARIO, CANADA**

Attorney Docket No.: 17475ROUS01P

## **Invention Disclosure**

Rolf Meier

August 25, 2003

### ***Bandwidth/Screen Saver for Network Media Gateway 2***

This invention is a device and method which detects the supply current being consumed by a TV in use or turned off, and, upon sensing a current below a particular threshold, turns off the incoming sound and picture signal.

The invention consists of 1) a circuit which measures the amount of current being consumed by the TV and 2) a decision-making algorithm in the NMG which uses the current information together with other information to decide whether or not to turn off the incoming picture and sound signal.

## ***Need for this Invention***

The requirement for this invention comes about because the Network Media Gateway (hereafter called the NMG) and the network would benefit from knowing whether or not a TV is in use or turned on. If the TV is not being used, then significant downstream bandwidth and processing can be saved in the network by not sending the detailed picture information to the TV.

This invention satisfies that need by detecting whether the TV is on or not by monitoring the supply current of the TV. If the current is lower than a particular threshold, the NMG sends a message to the network to stop sending the picture and sound information for that TV.

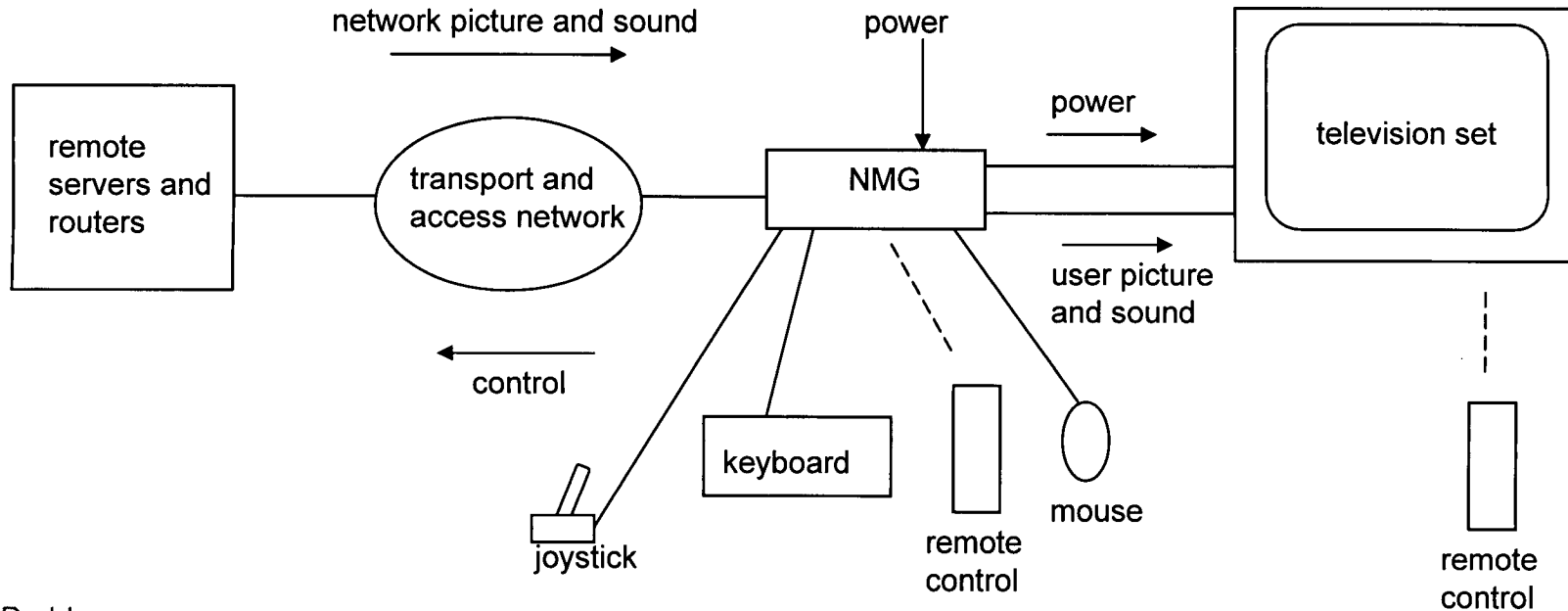
The NMG could also be call a STB (Set Top Box).

## ***Prior Art***

This invention makes use of a conventional power sensing circuit which has many generic uses.

## Detailed Description of Invention

### Block Diagram of Components



Problem:

If television has been turned off using its remote control, how can we ensure that the network does not waste resources by continuing to send picture and sound to the NMG? That problem is solved with this invention.

controls:  
TV volume  
channel change  
PIP  
program guide  
Internet surfing  
email  
gaming  
etc.

controls:  
TV on/off  
TV volume

# 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.