

US006169789B1

(12) United States Patent

Rao et al.

(54) INTELLIGENT KEYBOARD SYSTEM

- (76) Inventors: Sanjay K. Rao; Sunil K. Rao; Raman K. Rao, all of 3087 Alexis Dr., Palo Alto, CA (US) 94301
- (*) Notice: Under 35 U.S.C. 154(b), the term of this patent shall be extended for 0 days.
- (21) Appl. No.: 09/281,739
- (22) Filed: Jun. 4, 1999

Related U.S. Application Data

- (63) Continuation-in-part of application No. 08/764,903, filed on Dec. 16, 1996, now abandoned.
- (51) Int. Cl.⁷ H04M 11/00
- (58) Field of Search 379/110.01, 90.01,
 - 379/93.05, 93.37, 100.01, 102.02, 102.03, 419, 420, 428, 429, 441, FOR 132

(56) **References Cited**

DOCKE

U.S. PATENT DOCUMENTS

4,465,401	*	11/1995	Thompson 379/420
4,675,653	*	6/1987	Priestley 379/110.01
5,195,130	*	3/1993	Weiss et al 379/110.01
5,577,118	*	11/1996	Sasaki et al 379/428

FOREIGN PATENT DOCUMENTS

US 6,169,789 B1

Jan. 2, 2001

WO92/03884 * 3/1992 (WO) 379/FOR 132

* cited by examiner

(10) Patent No.:

(45) Date of Patent:

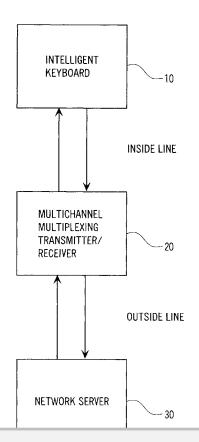
Primary Examiner—Wing F. Chan

(74) Attorney, Agent, or Firm-Trial & Technology Law Group

(57) ABSTRACT

This invention generally relates to a system level scheme utilizing an intelligent keyboard, hereafter called an Intellikeyboard, which can operate as a universal compute, command, and control module that interfaces either through wired or wireless means with a number of intelligent appliances, personal computers, work-stations, servers, televisions, printers, smart devices, intelligent devices, telephones, or other devices. The Intellikeyboard has the ability to transmit and receive voice, text, graphics, and other data through either wired or wireless means. The Intellikeyboard may work in tandem with a local or network server to perform standard computing functions, serve as a command and control unit, perform standard telephony functions, transmit and receive electronic mail, voice mail, video, and audio. The invention also anticipates the need for multichannel and sequential/simultaneous tasking and interface with numerous intelligent appliances and devices.

1 Claim, 12 Drawing Sheets



Find authenticated court documents without watermarks at docketalarm.com.

Δ

М

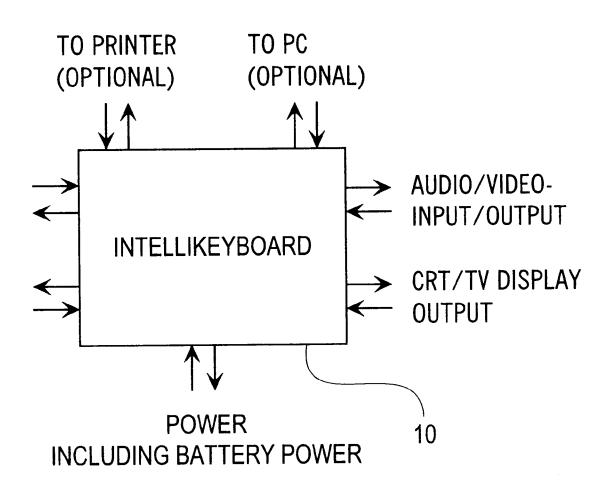


FIGURE 1

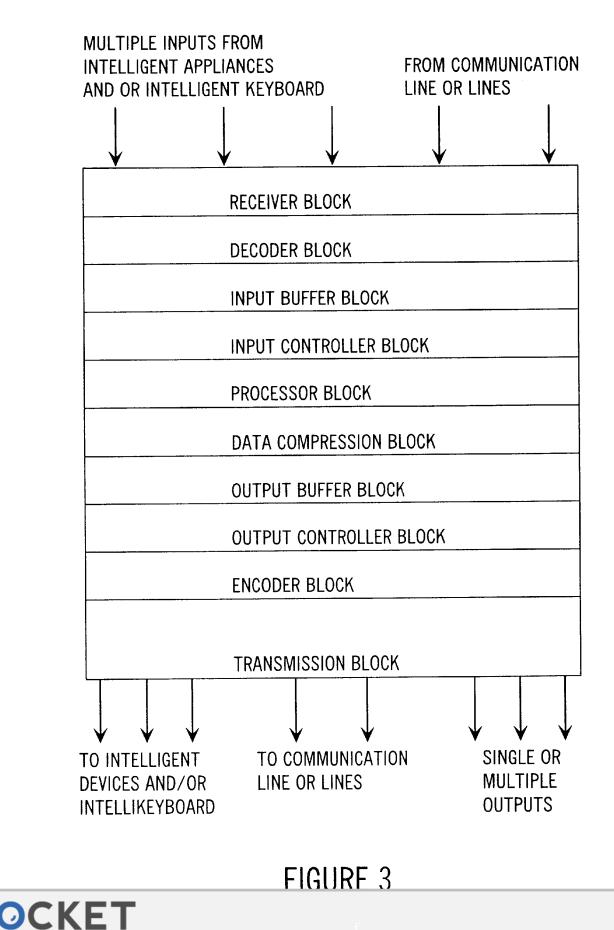
Find authenticated court documents without watermarks at docketalarm.com.

DOCKET

FIGURE 2

Δ

Μ



Find authenticated court documents without watermarks at docketalarm.com.

SENDING DATA:

CODE	INFORMATION	CODE

RECEIVING DATA:

Δ

DECODE INFORMATION DECO	DE
-------------------------	----

FIGURE 4

DOCKET LARM 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.