

## United States Patent [19]

### Tsuchiyama et al.

[11] Patent Number: 5,548,271

[45] **Date of Patent:** 

Aug. 20, 1996

[54]	DATA DISPLAY RADIO PAGER		
[75]	Inventors: Kinya Tsuchiyama; Masahiro Matai, both of Tokyo, Japan		
[73]	Assignee: NEC Corporation, Japan		
[21]	Appl. No.: <b>265,668</b>		
[22]	Filed: <b>Jun. 24, 1994</b>		
[30]	Foreign Application Priority Data		
Jun. 28, 1993 [JP] Japan 5-178529			
[51]	Int. Cl. <sup>6</sup> H04Q 1/30; G08B 5/22		
	<b>U.S. Cl. 340/311.1</b> ; 340/825.44;		
	345/102; 368/227		
[58]	Field of Search 340/311.1, 825.44,		
	340/825.45; 345/102, 4; 368/30, 83, 84,		
	226, 227, 241, 242		
[56]	References Cited		
U.S. PATENT DOCUMENTS			
	1,644,350 2/1987 Ishii		

, ,		Stair et al
	7/1990	Kawamura
5,185,604 5,192,947	2/1993	Nepple et al

#### FOREIGN PATENT DOCUMENTS

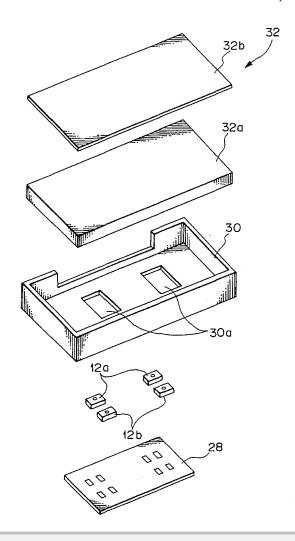
62-198735 12/1987 Japan .

Primary Examiner—Brent A. Swarthout
Attorney, Agent, or Firm—Ostrolenk, Faber, Gerb & Soffen,
LLP

#### [57] · ABSTRACT

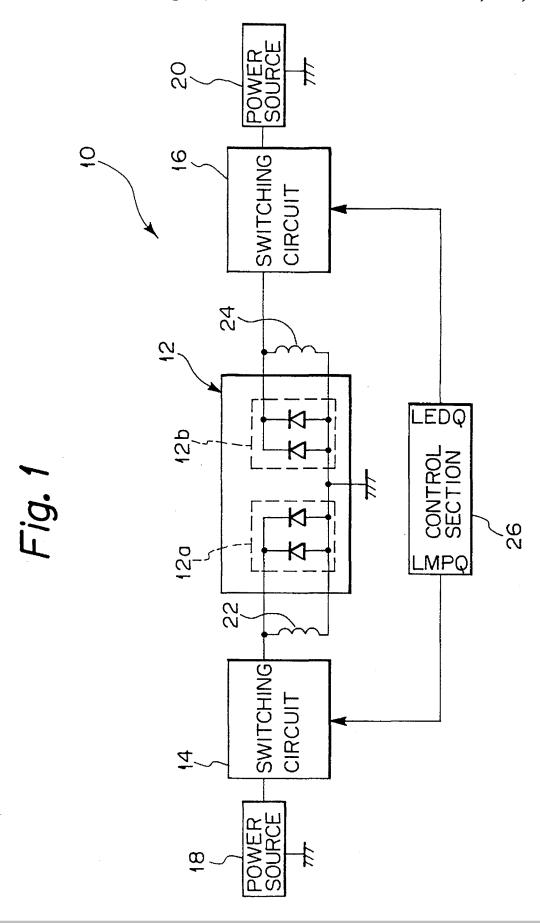
In a data display radio pager, light emitting diodes (LEDs) for alerting the user of the pager to an incoming call are disposed in a backlight together with LEDs for backlighting a liquid crystal display (LCD) for message display. The alert LEDs effect an alert via the LCD and flash in a striking color different from the color of light to issue from the backlight LEDs. The radio pager is miniature despite that the LCD and alert LEDs are arranged on the front of the casing of the pager.

15 Claims, 4 Drawing Sheets





Aug. 20, 1996





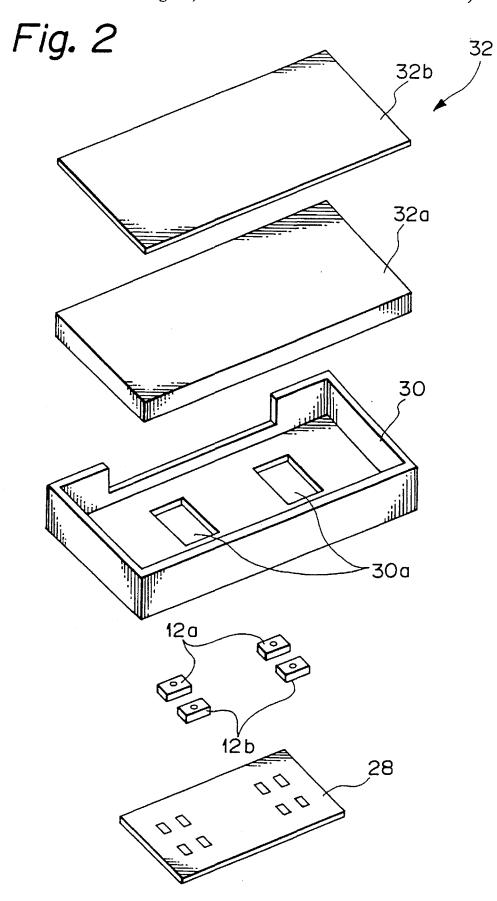
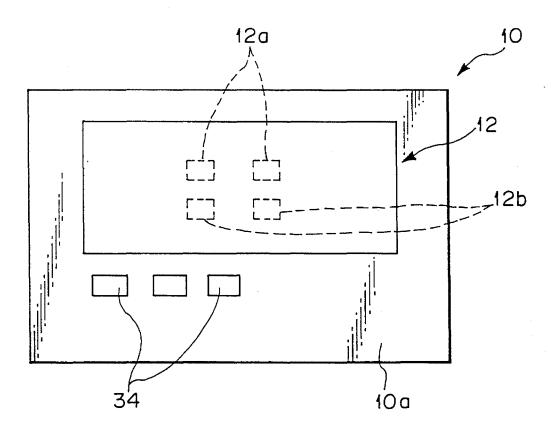


Fig. 3A

Aug. 20, 1996



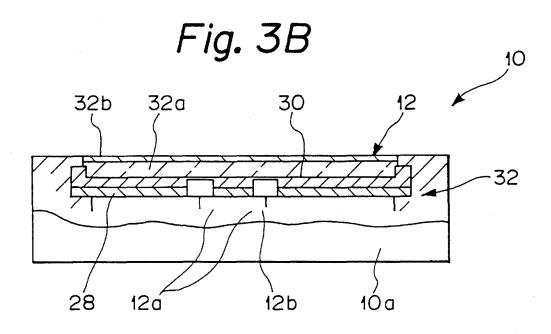
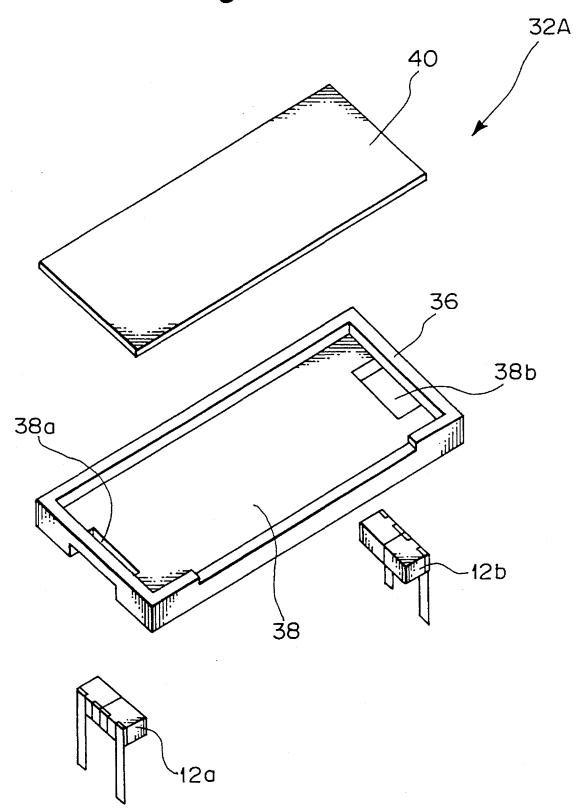




Fig. 4

Aug. 20, 1996





# 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.

