

US005479479A

United States Patent [19]

Braitberg et al.

[11] Patent Number:

5,479,479

[45] Date of Patent:

Dec. 26, 1995

[54]	METHOD AND APPARATUS FOR
	TRANSMISSION OF AND RECEIVING
	SIGNALS HAVING DIGITAL INFORMATION
	HSING AN AIR LINK

[75] Inventors: Michael F. Braitberg; Patrick J.

Kennedy; Richard A. Chandler, all of

Boulder, Colo.

[73] Assignee: Cell Port Labs, Inc., Boulder, Colo.

[21] Appl. No.: 50,910

[22] Filed: Apr. 20, 1993

Related U.S. Application Data

[63]	Continuation-in-part of Ser.	No.	773,840,	Oct.	9,	1991,	Pat.
	No. 5,333,177.						

[51]	Int.	CL^6	H04M	11/00

[52]	U.S. Cl.	 379/58;	455/33.1; 370/85.7
			370/85.13; 379/59

[56] References Cited

U.S. PATENT DOCUMENTS

4,697,281 4,718,080 4,792,986 4,837,800 4,890,315 4,972,457 4,977,609 5,020,090 5,046,187 5,081,667 5,085,503	11/1990 12/1990 5/1991 9/1991 1/1992	Serrano et al. Garner et al. Freeburg et al. Bendixen et al. O'Sullivan McClure Morris Takahashi Drori et al.	379/59 455/89 379/59 379/59 379/59 455/89 379/58 379/93 379/59
5,095,503	3/1992	Kowalski	579/59

5,10	9,402	4/1992	Anderson et al	379/63
5,11	9,397	6/1992	Dahlin et al	375/5
5,12	7,041	6/1992	O'Sullivan	379/59
5,14	6,486	9/1992	Lebowitz	379/40
5,14	8,473	9/1992	Freeland et al	379/59
5,21	4,774	5/1993	Welsch et al	455/33.1
5,23	7,570	8/1993	Smolinske et al	455/84
5,27	6,703	1/1994	Budin et al	370/85.2
5,29	7,142	3/1994	Paggeot et al	379/63
5,33	1,634	7/1994	Fischer	370/85.13
5,37	1,734	12/1994	Fischer	370/95.1

OTHER PUBLICATIONS

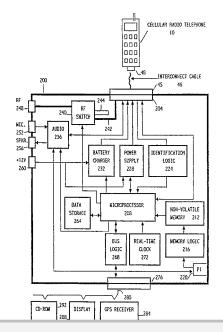
AB3X Cellular Interface Owner's Manual, Morrison & Dempsey Communications, Nov. 16, 1987.

Primary Examiner—Dwayne D. Bost Attorney, Agent, or Firm—Sheridan Ross & McIntosh

[57] ABSTRACT

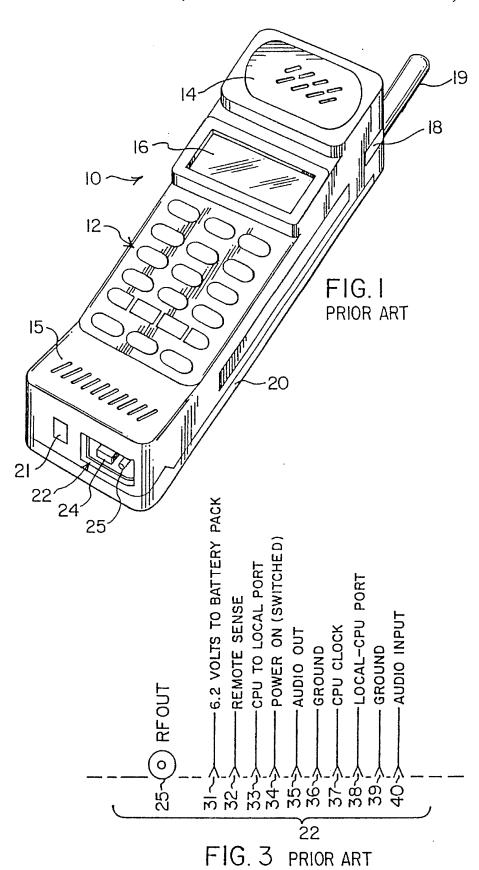
A cellular telephone is interconnected to a control unit via a cable. The cable contains both appropriate interdisciplinary connections for attachment to the telephone at one end and to the control unit at the other end via a universal connector. At least one contact of the universal connector is capable of producing a signal coded to identify the type of cellular telephone attached to the connector at the other end. A decoder at the control unit identifies the type of phone as by table look-up and establishes appropriate interfacing operational functions at its universal connector to properly operate with the telephone. Accordingly, the control unit can function with any of a wide variety of cellular telephones having differently configured cable connections and cable connector disciplines of contact assignments. In addition, the control unit may include circuitry for controlling a number of peripheral devices which are operable to send and receive digital data through the cellular phone unit to and from remote devices via radio frequency signals.

29 Claims, 9 Drawing Sheets









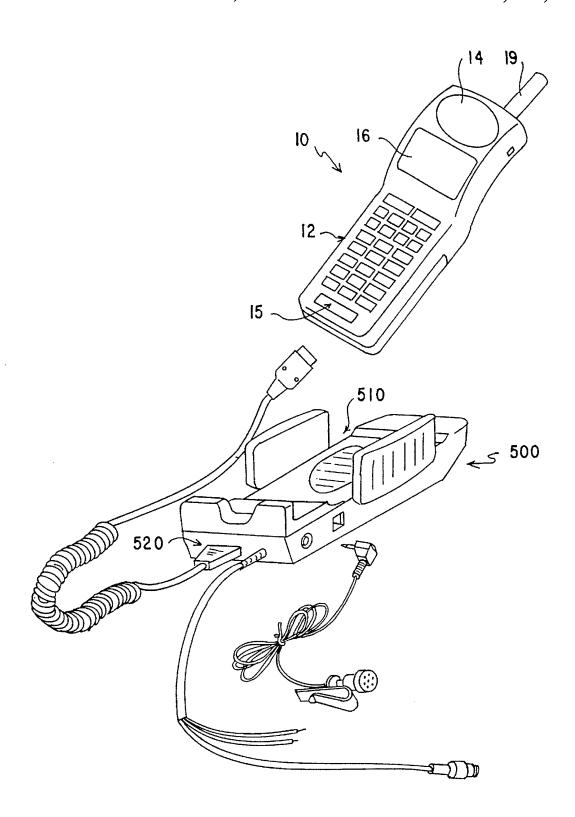
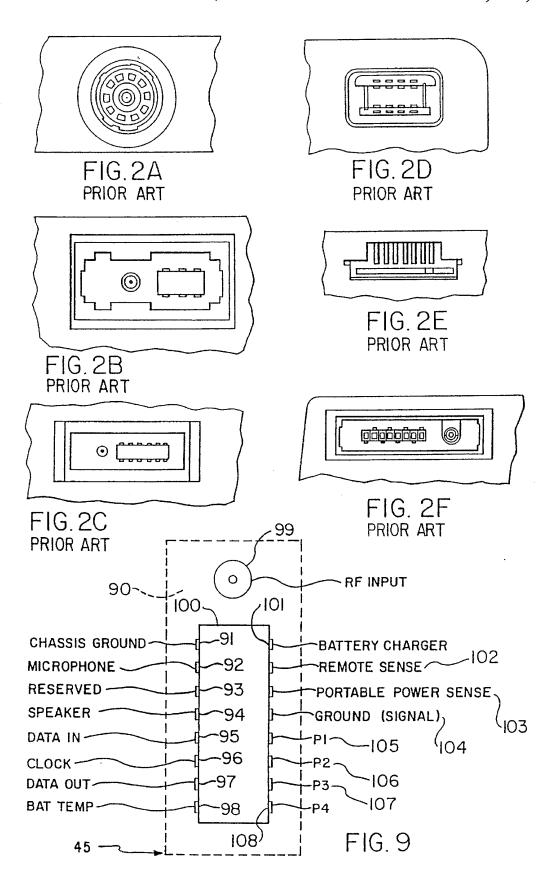
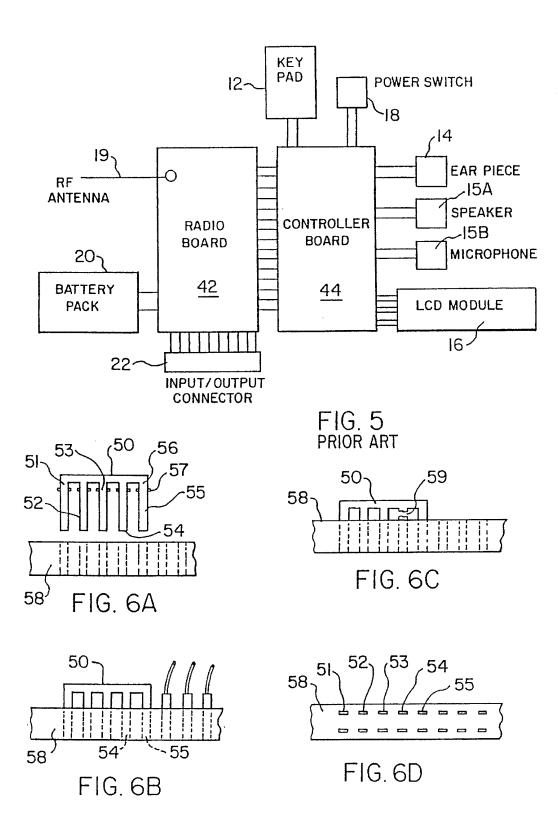


FIG. IA PRIOR ART

Dec. 26, 1995







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.

