

United States Patent [19]

Nishiyama et al.

[54] FOLDABLE RADIO TELEPHONE SET WITH ROTARY SELECTOR INTEGRAL WITH FOLDABLE HINGE ELEMENT

- [75] Inventors: Takanori Nishiyama, Mitaka;
 Kazunori Yanagisawa,
 Higashiyamoto; Sakae Itakura,
 Ayase, all of Japan
- [73] Assignee: Hitachi, Ltd., Tokyo, Japan
- [21] Appl. No.: 117,326
- [22] Filed: Sep. 7, 1993
- [30] Foreign Application Priority Data

Sep. 8, 1992 [JP] Japan 4-239735

- [51] Int. Cl.⁶ H04M 11/00
- 379/428; 379/433; 379/434; 455/89; 455/90 [58] Field of Search 379/58, 61, 428, 433,
- 379/434; 455/89, 90

[56] References Cited

U.S. PATENT DOCUMENTS

4,481,382	11/1984	Villa-Real 379/61
4,739,128	4/1988	Grisham 379/96
4,845,772	7/1989	Metroka et al 379/61
5,027,394	6/1991	Ono et al 379/434

US005436954A

[11] Patent Number: 5,436,954

[45] Date of Patent: Jul. 25, 1995

FOREIGN PATENT DOCUMENTS

0373387A1	6/1990	European Pat. Off
0463856A2	1/1992	European Pat. Off
0463856	1/1992	European Pat. Off

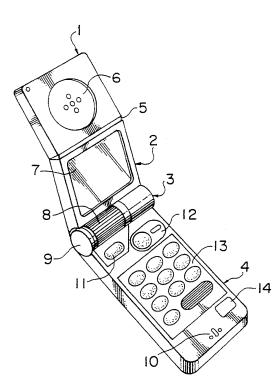
Primary Examiner-Curtis Kuntz

Assistant Examiner—G. J. Oehling Attorney, Agent, or Firm—Antonelli, Terry, Stout & Kraus

[57] ABSTRACT

A portable radio telephone set provided with a display section includes a rotary selector which turns to select various functions. A menu displayed on the display section is selected by the rotary selector during a nonconversation time, and the sound volume can be adjusted during the conversation time. The adjusting operation can be performed from both the front and the rear sides of the telephone set. The rotary selector and button keys are arranged within the operation range of the thumb, and ordinary dial functions performed by operating these rotary selector and button keys are provided.

13 Claims, 7 Drawing Sheets



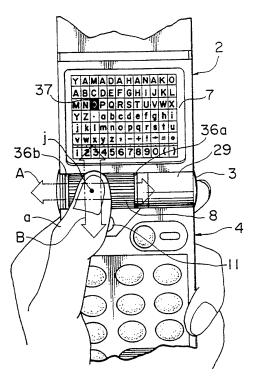
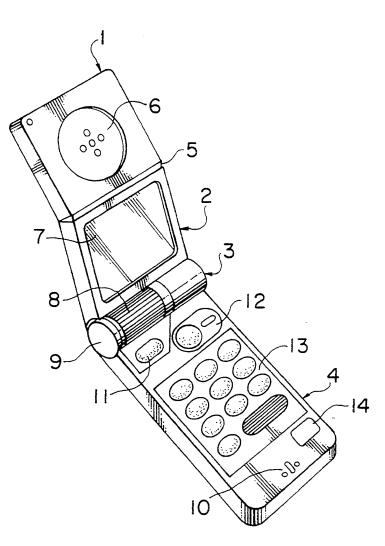
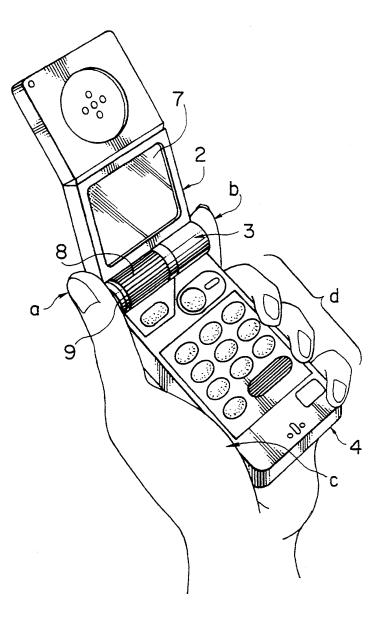


FIG. I



KE.) Page 2 Find authenticated court documents without watermarks at docketalarm.com. Α RM Α

FIG. 2



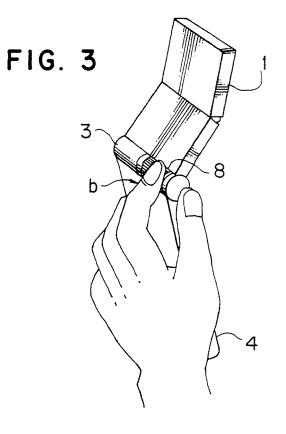
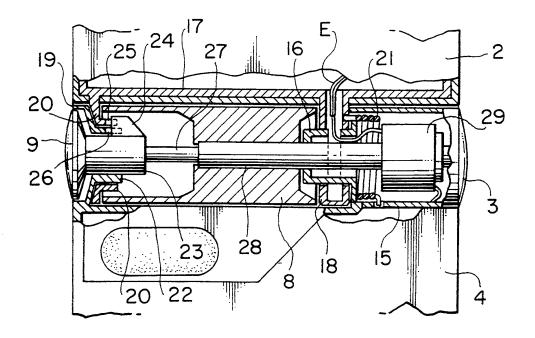
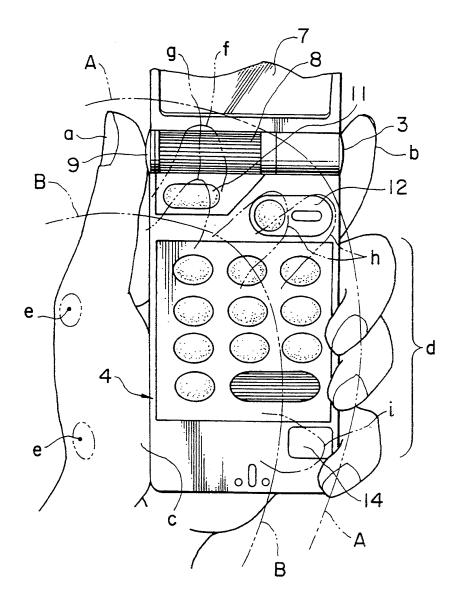


FIG. 5



Page 4 IPR2021-00681 (Lenovo Inc. v. LiTI LLC.) Find authenticated court documents without watermarks at <u>docketalarm.com</u>. FIG. 4



F Page 5 Find authenticated court documents without watermarks at docketalarm.com. Α R М

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.