



US007080154B1

(12) **United States Patent**
Inoue et al.

(10) **Patent No.:** **US 7,080,154 B1**
(45) **Date of Patent:** **Jul. 18, 2006**

(54) **COMMUNICATION SCHEME FOR
REALIZING EFFECTIVE DATA
INPUT/SETUP IN COMPACT SIZE
PORTABLE TERMINAL DEVICE USING
LOCALLY CONNECTED NEARBY
COMPUTER DEVICE**

6,272,545 B1 *	8/2001	Flanagin et al.	709/228
6,278,454 B1 *	8/2001	Krishnan	345/846
6,397,259 B1 *	5/2002	Lincke et al.	709/236
6,415,330 B1 *	7/2002	Okanoue	709/245
6,473,609 B1 *	10/2002	Schwartz et al.	455/406
6,622,174 B1 *	9/2003	Ukita et al.	709/207
6,694,366 B1 *	2/2004	Gernert et al.	709/227

(75) Inventors: **Atsushi Inoue**, Kanagawa (JP); **Yasuro Shobatake**, Kanagawa (JP)

(73) Assignee: **Kabushiki Kaisha Toshiba**, Kawasaki (JP)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/437,496**

(22) Filed: **Nov. 10, 1999**

(30) **Foreign Application Priority Data**

Nov. 10, 1998 (JP) 10-319572

(51) **Int. Cl.**
G06F 15/16 (2006.01)

(52) **U.S. Cl.** **709/234**; 709/217; 379/93.01

(58) **Field of Classification Search** 709/217-219,
709/245, 236, 249, 228, 203, 227, 232, 234;
345/157, 751, 163; 455/3.01; 379/93.01,
379/93.24

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,796,394 A *	8/1998	Wicks et al.	345/751
5,838,926 A *	11/1998	Yamagishi	709/249
5,930,472 A *	7/1999	Smith	709/203
6,065,120 A *	5/2000	Laursen et al.	709/227
6,072,468 A *	6/2000	Hocker et al.	345/157
6,112,244 A *	8/2000	Moore et al.	709/228
6,137,476 A *	10/2000	Hocker et al.	345/163
6,243,739 B1 *	6/2001	Schwartz et al.	709/219
6,249,516 B1 *	6/2001	Brownrigg et al.	370/338

FOREIGN PATENT DOCUMENTS

JP	7-175547 A	7/1995
JP	10-021060 A	1/1998
JP	10-275132	10/1998
JP	2000-505621 A	5/2000

(Continued)

OTHER PUBLICATIONS

Kazuki Kasahara et al., "Detailed Analysis, Windows CE Japanese Version", Mobile PC, Sep. 1997, pp. 42-54, vol. 3, No. 9.

Primary Examiner—William C. Vaughn, Jr.

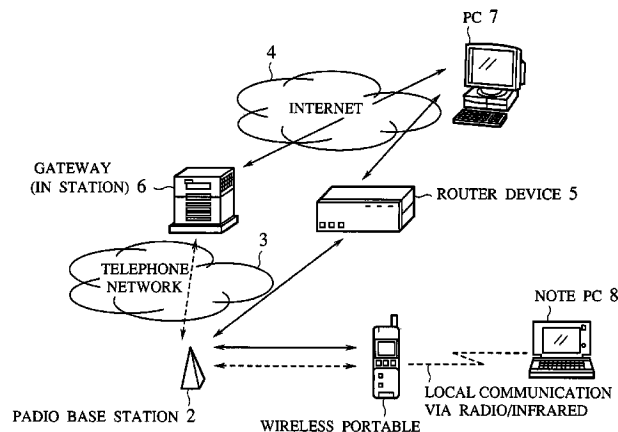
Assistant Examiner—Phouc H. Nguyen

(74) *Attorney, Agent, or Firm*—Foley & Lardner LLP

(57) **ABSTRACT**

A communication scheme in which it becomes possible to improve handling of a user interface or omit tedious operations in a portable terminal device by cooperating the computer device with the portable terminal device is disclosed. The portable terminal device obtains a prescribed information regarding the computer network that is necessary or utilizable in operating an application program to be operated on the portable terminal device by being connected to the computer network, from the computer device connected to the portable terminal device via the local network, carries out a prescribed processing for the application program according to at least a part of the prescribed information, and executes the application program by using a result of the prescribed processing and being connected to the computer network.

13 Claims, 25 Drawing Sheets



US 7,080,154 B1

Page 2

	FOREIGN PATENT DOCUMENTS	WO	WO 97/32439 A2	9/1997
WO	9-190353 A	7/1997	* cited by examiner	

FIG. 1

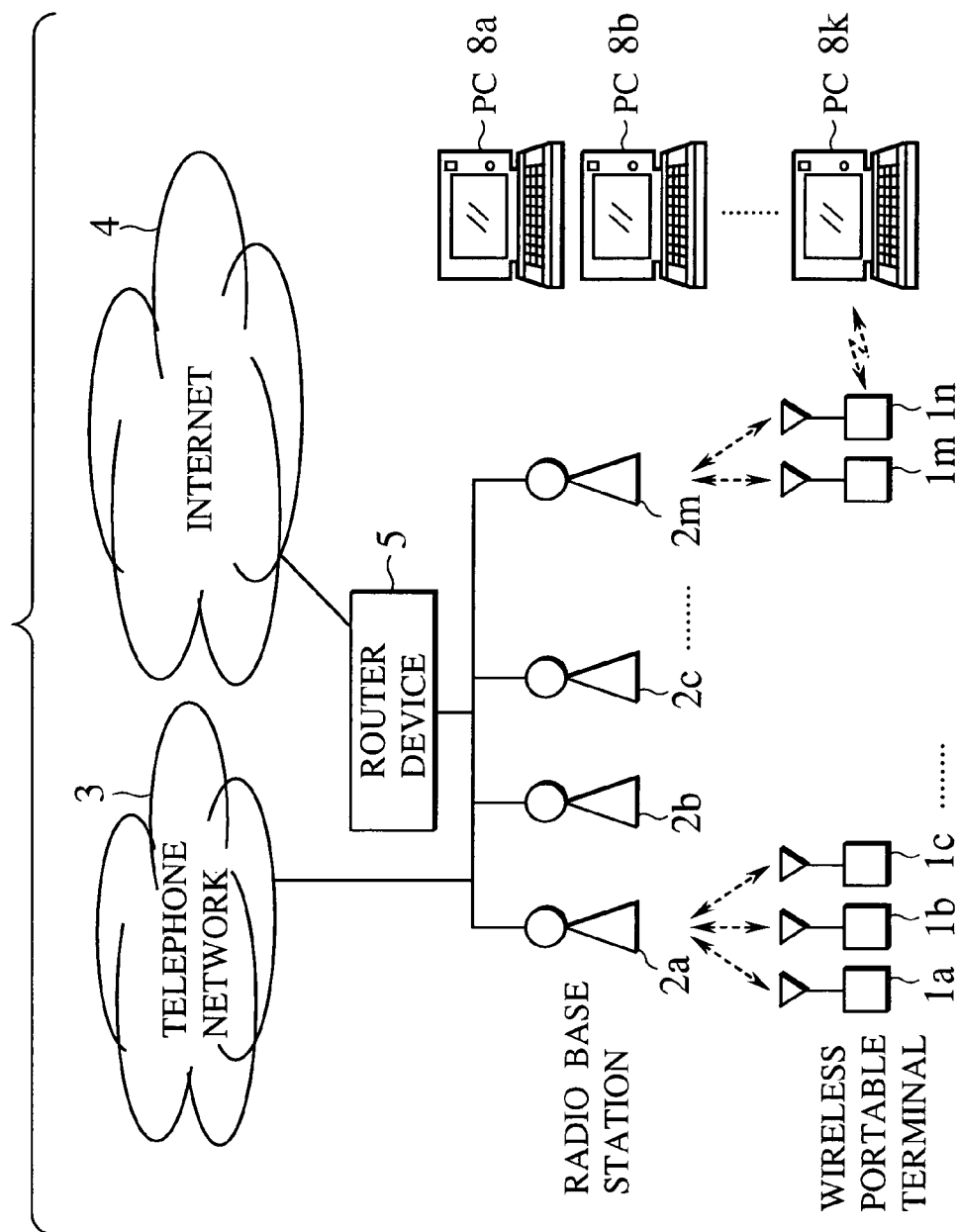
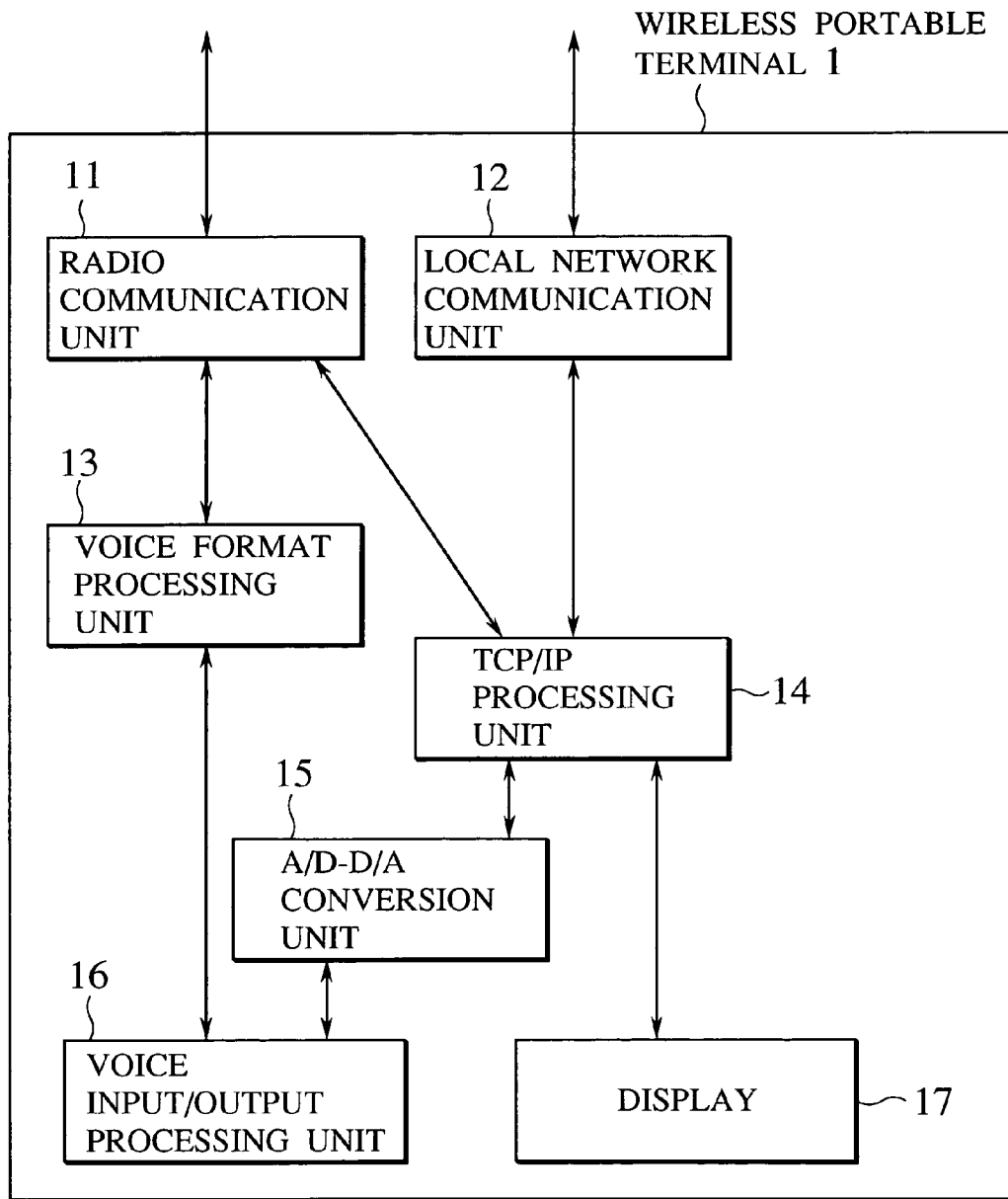
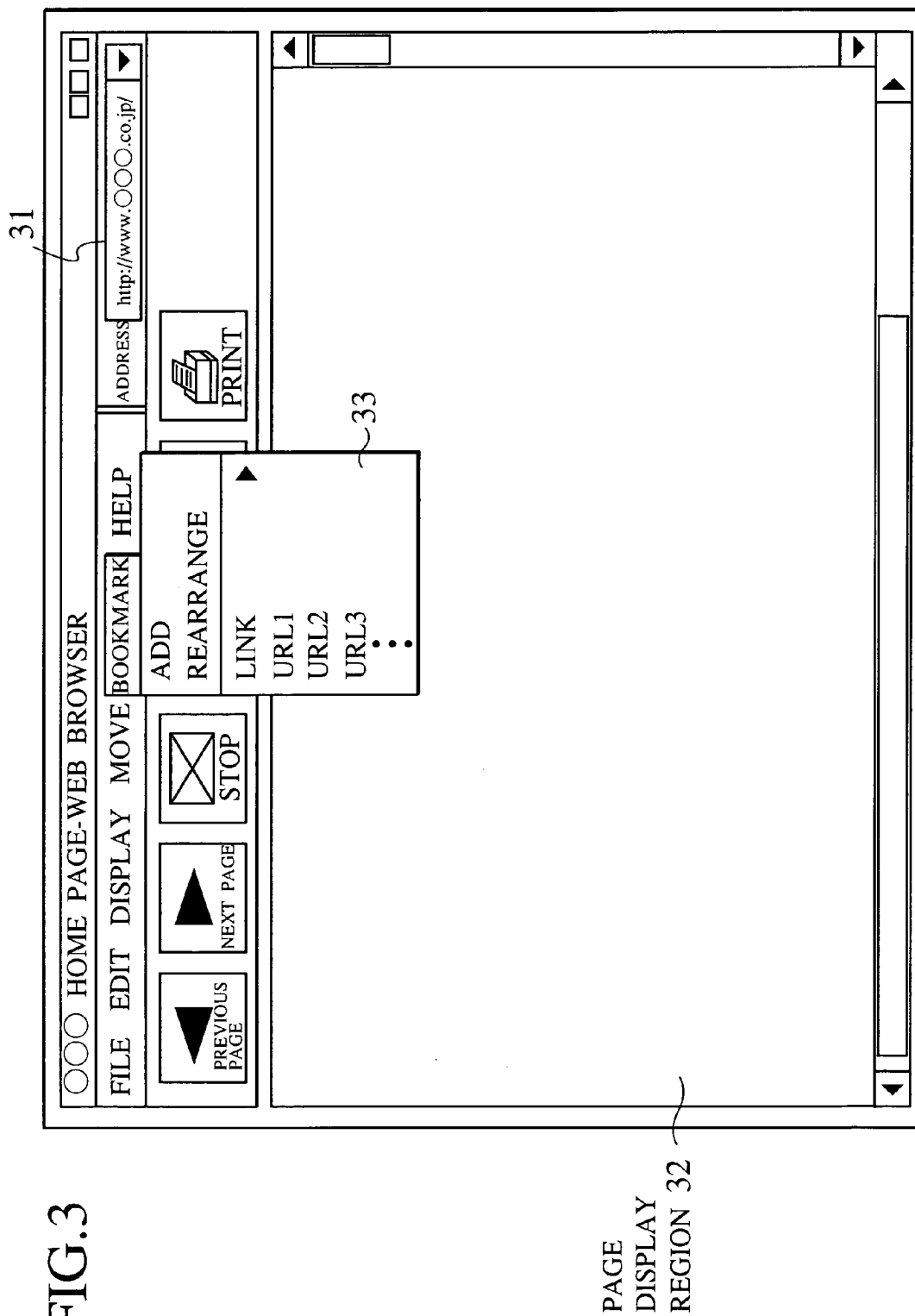


FIG. 2





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.