US005937041A

United States Patent [19]

Cardillo, IV et al.

[11] Patent Number: 5,937,041

[45] Date of Patent: *Aug. 10, 1999

[54] **SYSTEM AND METHOD FOR RETRIEVING INTERNET DATA FILES USING A SCREEN-DISPLAY TELEPHONE TERMINAL**

[75] Inventors: **Raymond A. Cardillo, IV**; **Thomas Kredo**, both of Rochester, N.Y.

[73] Assignee: **Northern Telecom, Limited**, Canada

[*] Notice: This patent is subject to a terminal disclaimer.

[21] Appl. No.: **08/815,663**

[22] Filed: **Mar. 10, 1997**

[51] **Int. Cl.**^{6} **H04M 11/00**
[52] **U.S. Cl.** **379/93.25**; 379/90.01
[58] **Field of Search** 379/90.01, 93.01, 379/93.05–93.09, 93.12–93.15, 93.17–93.31, 93.37, 110.01, 387, 900

[56] **References Cited**

U.S. PATENT DOCUMENTS

5,394,461	2/1995	Garland	379/106
5,524,141	6/1996	Braun et al.	379/93
5,530,852	6/1996	Meske, Jr. et al.	395/600
5,541,986	7/1996	Hou	379/201
5,572,727	11/1996	Larsson et al.	395/616
5,588,044	12/1996	Lofgren et al.	379/67
5,590,178	12/1996	Murakami et al.	379/96
5,594,490	1/1997	Dawson et al.	348/6
5,594,491	1/1997	Hodge et al.	378/7

OTHER PUBLICATIONS

Bellcore, "*Generic Requirements for an SPCS to Customer Premises Equipment Data Interface for Analog Display Services,*" Technical Reference No. Tr–NWT–001273, Issue No. 1, pp. 1–1–A4 (Dec. 1992).
Bellcore, "*Technical Reference Bullentin No. 2,*" Revision of TR–NWT–001273, pp. 1–3 (Oct. 1993).
Bellcore, "*Technical Reference Notice of Disclaimer,*" Revision of TR–NWT–001273, pp. 1–1–R2, (Jun. 1995).
Bellcore, "*Technical Reference Bulletin,*" Revision of TR–NWT–001273, pp. 1–3 (Jun. 1993).

Bellcore, "*Technical Reference Bulletin No. 3,*" Revision of TR–NWT–001273, pp. 1–10 (Dec. 1993).
NT Northern Telecom, "*ACMS Server High Level Software Design, System Design Specification,*" Multimedia Bus. Appln., No. 355–01533–00002, pp. 1–23 (Dec. 1994).
Unwired Planet, Inc., "*Using the Up.Browser,*" Ver. 1.0.1, pp. 1–13 (Aug. 1996).
Unwired Planet, Inc., "*HDML Language Reference,*" Ver. 1.0, pp. 1–52 (Jul. 1996).
Unwired Planet, Inc., "*Up.Link Developer's Guide,*" Ver. 1.0, pp. 1–46 (Jul. 1996).
NT Northern Telecom, "*The ABC's of Display Based,*" Issue 1, pp. 17–36 (Jan. 1995).
NT Northern Telecom, "*Service Generator User's Guide,*" No. 203–3071–900, (May. 1993).
U.S. Orders Introduces Revolutionary Internet–Based Service To Smart Telephone Users in All 50 States for 7.95 a Month; Roll–out to Pagers, PDA's & Cellular Phones Planned for 1997, (Sep. 1996).
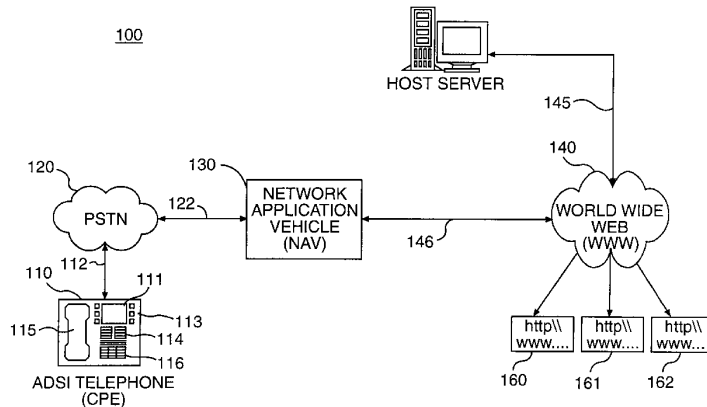Bob Emerson, "With simultaneous voice and data, new screen phones will bring better services," BYTE (Jan. 1996).
Terry Yarbrough and Lois Andreasen, "*ADSI on the Rise*" (Sep. 6, 1996).

Primary Examiner—Wing F. Chan
Attorney, Agent, or Firm—Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

[57] **ABSTRACT**

A system and method for interfacing screen-display telephone terminals with the Internet. A browser device located on an ADSI capable telephone platform server retrieves requested data files from an Internet site and formats the retrieved data file specifically for display on the screen-display telephone terminal. The browser also permits a link between ADSI specific applications by giving the user imbedded softkey commands which retrieve other data files including ADSI applications.
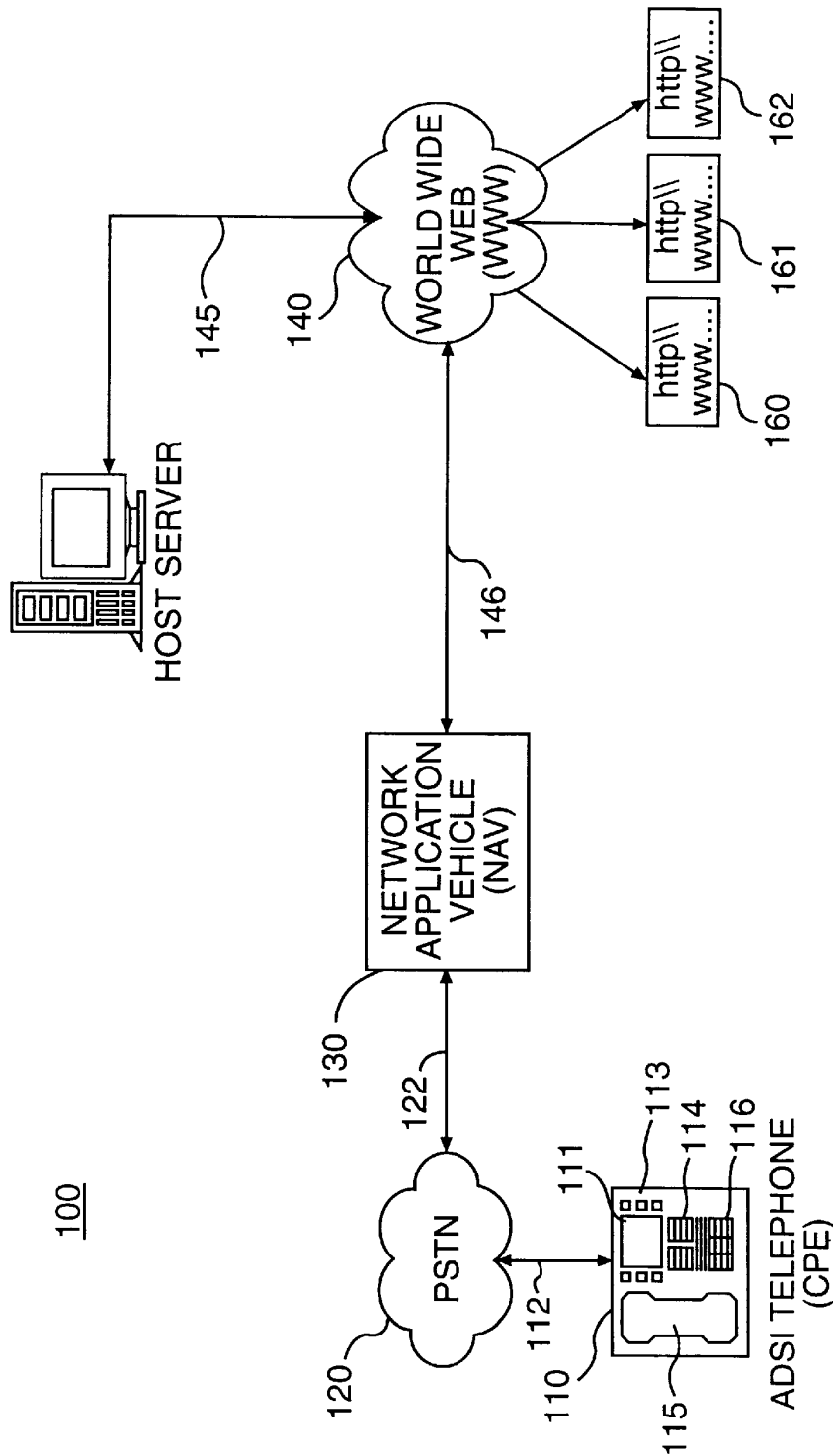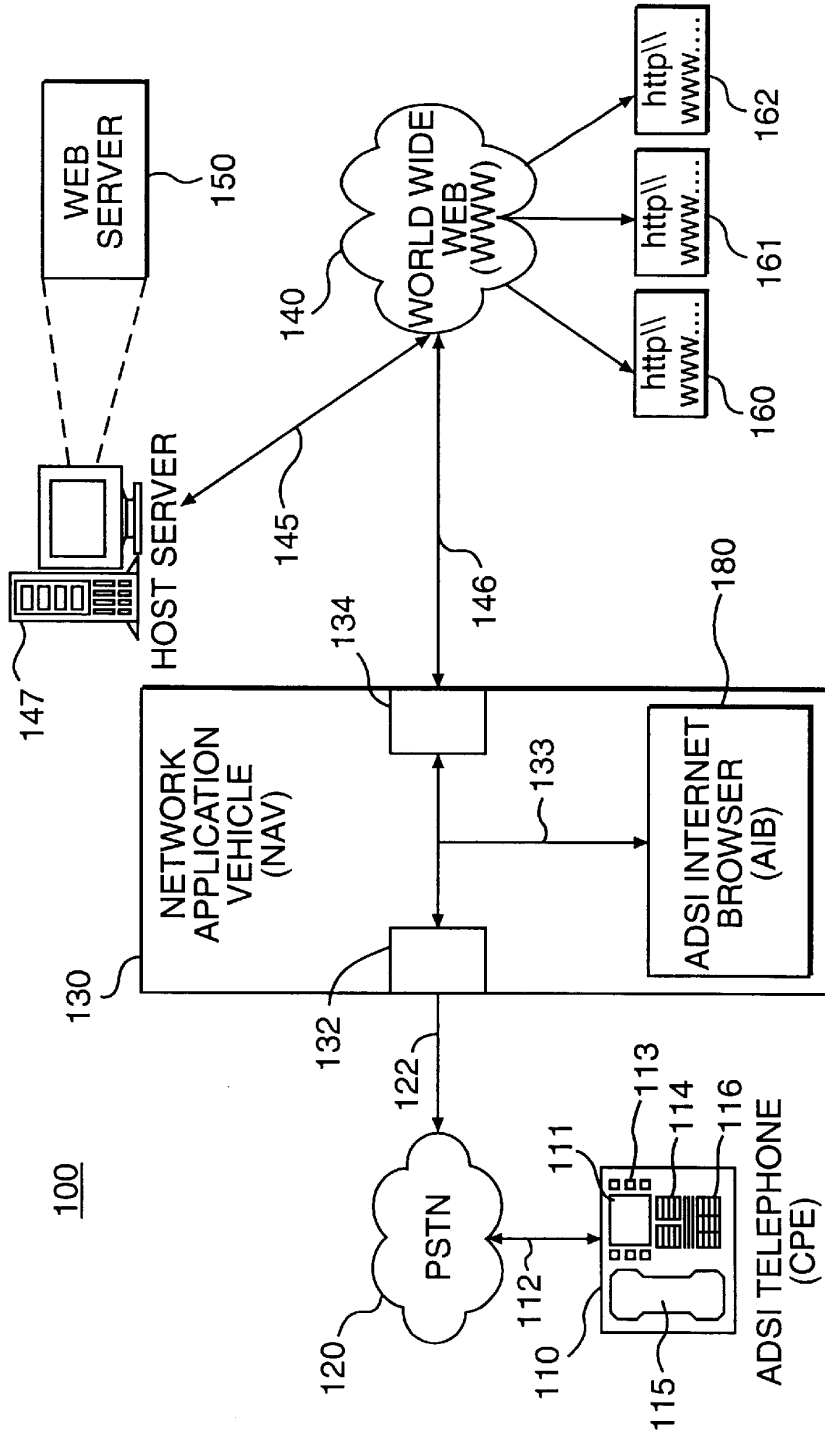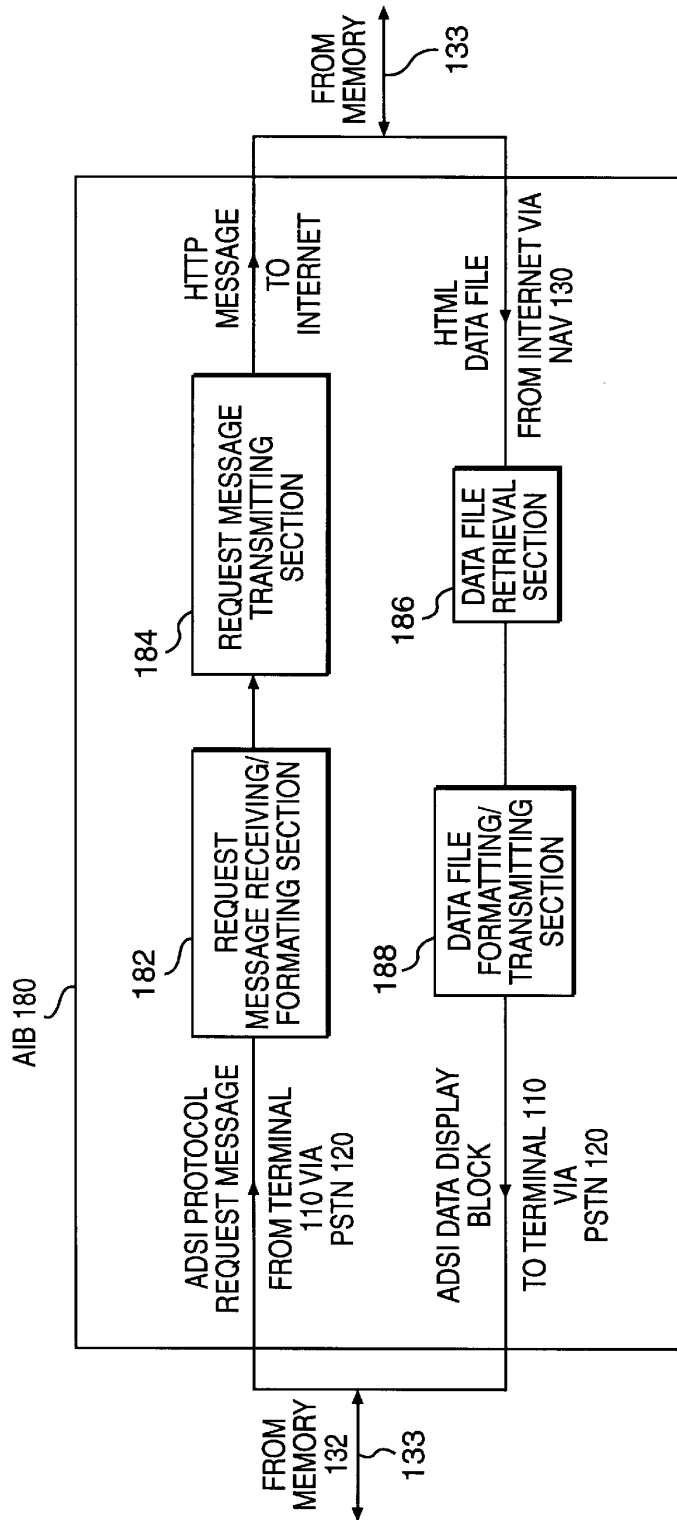
18 Claims, 8 Drawing Sheets

100

FIG. 1

FIG. 2

FIG. 3

200

FIG. 4

DOCKET ALARM
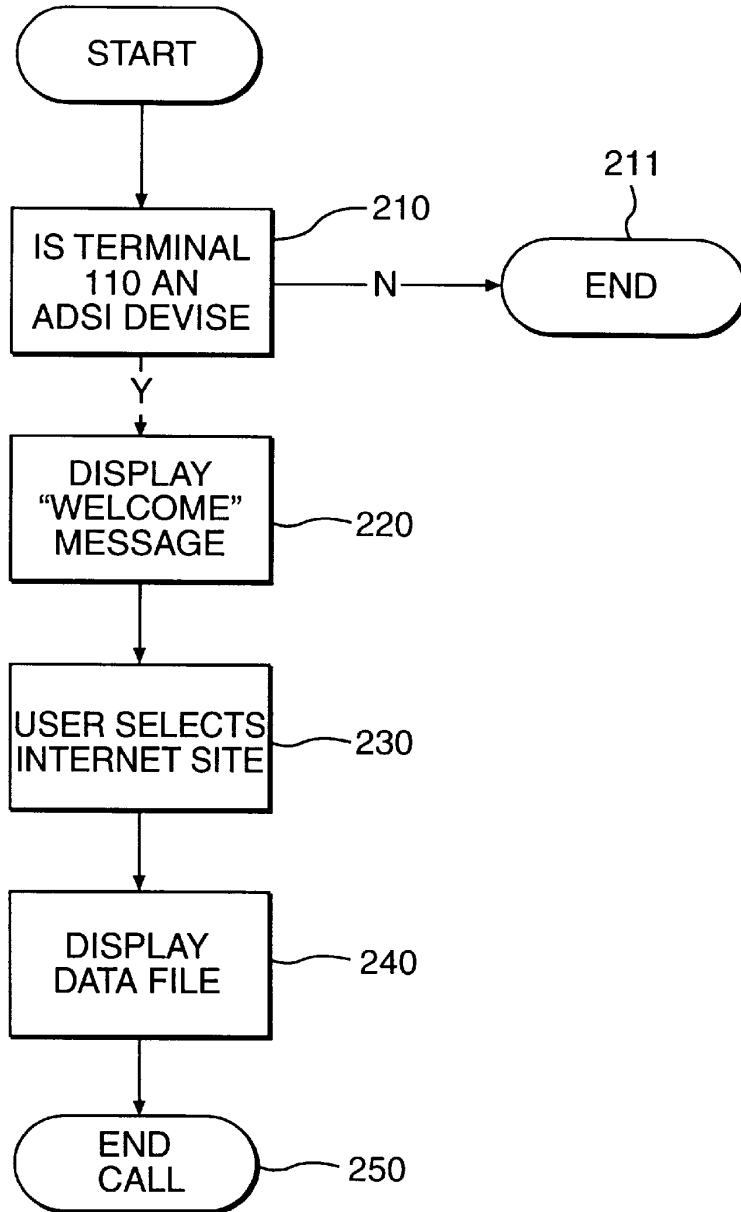
Explore Litigation Insights

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.

fastcase®
Smarter legal research.