



US006870828B1

(12) **United States Patent**
Giordano, III

(10) **Patent No.:** **US 6,870,828 B1**
(45) **Date of Patent:** **Mar. 22, 2005**

(54) **METHOD AND APPARATUS FOR
ICONIFYING AND AUTOMATICALLY
DIALING TELEPHONE NUMBERS WHICH
APPEAR ON A WEB PAGE**

FOREIGN PATENT DOCUMENTS

DE	19644210	10/1995	.....	H04M/3/42
WO	WO 97/13352	4/1997	.....	H04M/3/50
WO	WO 97/13382	4/1997	.....	H04Q/7/22

(75) **Inventor:** **Joseph Giordano, III**, Redwood City, CA (US)

OTHER PUBLICATIONS

(73) **Assignee:** **Cisco Technology, Inc.**, San Jose, CA (US)

Kalberg et al., *Instant Access to Relevant Information and Operations*, Jan. 6, 1997, Intel Architecture Laboratories.

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

Low, *The Internet Telephony Red Herring*, May 15, 1996, Hewlett Packard- Intelligent Networked Platforms Dept.

(21) **Appl. No.:** **08/868,216**

Primary Examiner—Steven Nguyen

(22) **Filed:** **Jun. 3, 1997**

(74) *Attorney, Agent, or Firm*—Thelen Reid & Priest LLP; David B. Ritchie

(51) **Int. Cl.**⁷ **H04L 12/66**; H04M 11/00; G06F 15/16

(57) **ABSTRACT**

(52) **U.S. Cl.** **370/352**; 370/401; 379/93.17; 709/203

A method and apparatus are provided for recognizing and accessing telephone numbers from a Web page. In the preferred embodiment of the invention, an HTML code of an accessed Web page is parsed and converted. A parsing algorithm applied to the text in the HTML document pattern-recognizes telephone numbers. Coding is added to iconify the recognized telephone numbers. The user's Internet-capable telephone displays the iconified telephone numbers. All previously-active links and graphical displays supported by the Internet-capable telephone are maintained in this display. To call a phone number, the user selects the icon, and the Internet-capable phone determines how to initiate the call. For a two-line phone, the Internet-capable telephone initiates a telephone call to the selected number. For a one-line phone, the Internet-capable telephone determines whether the line is available for a call. If the line is not currently being used, the Internet-capable telephone initiates a voice call to the selected number. However, if the user is connected to the Web, the Internet-capable telephone optionally transparently disconnects from the Internet and initiates a voice call to the selected telephone number. At the conclusion of the telephone call, the Internet-capable telephone optionally transparently re-connects to the Web.

(58) **Field of Search** 370/351–356, 370/400, 401, 402, 252, 270, 271, 261; 709/203–206; 707/10, 513, 500, 501, 520; 379/88.17, 93.17, 93.15, 90.01, 90, 349, 93, 96, 67, 88–89, 93.25, 93.19, 93.29, 93.08, 110.01, 707; 345/762, 133, 348, 375, 704; 340/825.44; 455/412–415, 340; 395/200, 203, 349, 600, 613

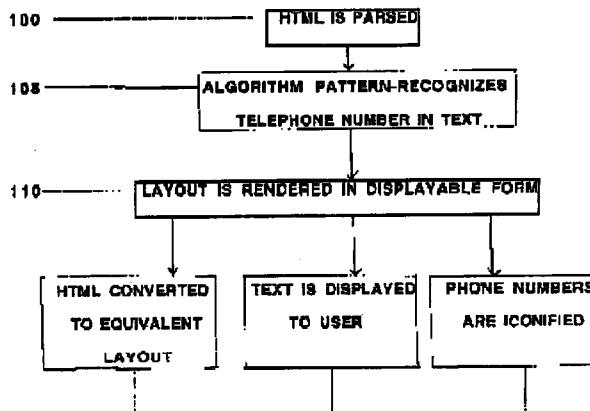
(56) **References Cited**

U.S. PATENT DOCUMENTS

4,995,074	A	2/1991	Goldman et al.	.....	379/97
5,250,940	A	10/1993	Valentaten et al.	.....	345/189
5,483,352	A	1/1996	Fukuyama et al.	.....	358/402
5,764,736	A	* 6/1998	Shachar et al.	.....	379/93.09
5,784,001	A	* 7/1998	Deluca	.....	345/133
5,822,539	A	* 10/1998	Van Hoff	.....	395/200.66
5,838,682	A	* 11/1998	Dekelbaum	.....	370/401
5,850,433	A	* 12/1998	Rondeau	.....	379/201
5,859,636	A	* 1/1999	Pandit	.....	707/501
5,903,631	A	* 5/1999	Smith	.....	379/90.01

(List continued on next page.)

37 Claims, 3 Drawing Sheets



US 6,870,828 B1

Page 2

U.S. PATENT DOCUMENTS

5,923,736 A	*	7/1999	Shachar	379/93.17	5,966,652 A	*	10/1999	Coad	455/412
5,930,474 A	*	7/1999	Dunworth	707/10	6,012,102 A		1/2000	Shachar	710/5
5,946,647 A	*	8/1999	Miller	704/9					

* cited by examiner

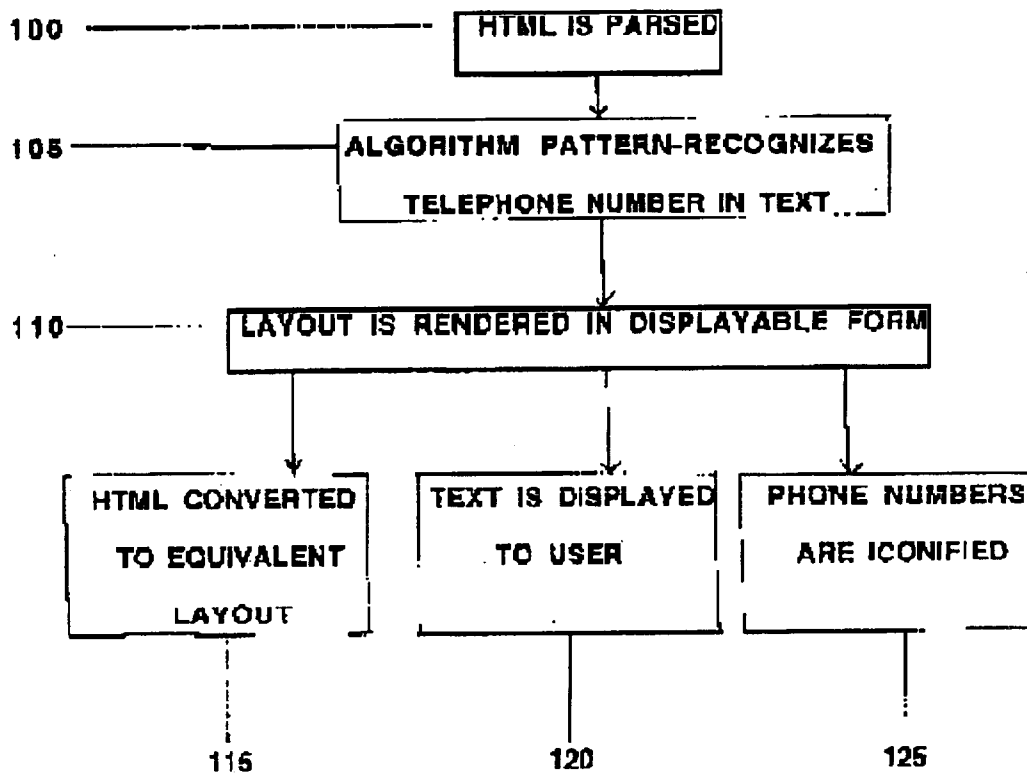


Fig. 1

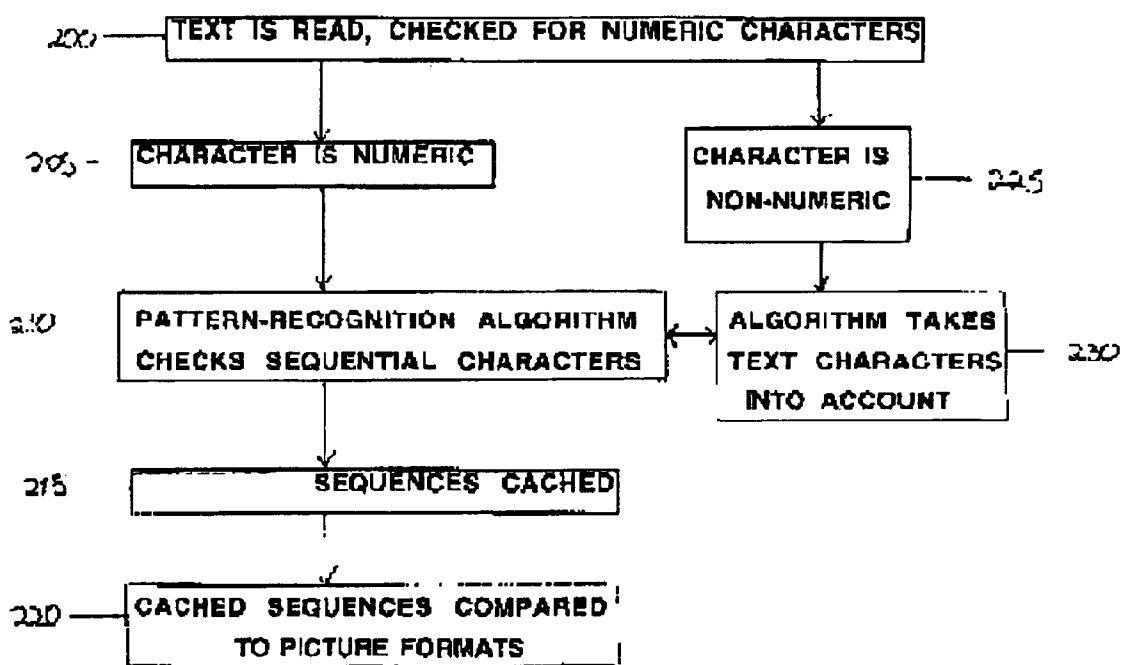


Fig. 2

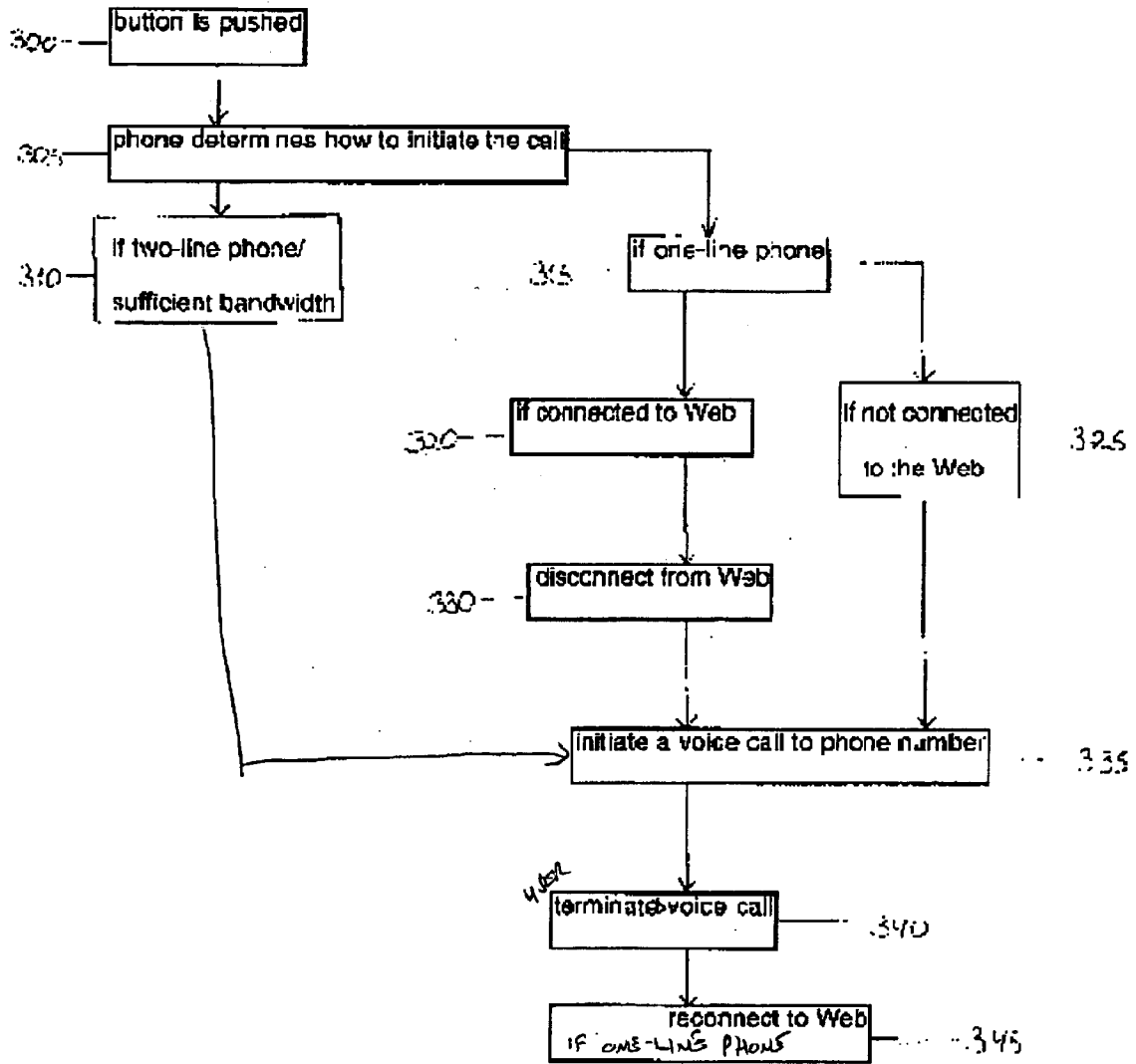


Fig. 3

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.