

### US006185625B1

# (12) United States Patent

Tso et al.

US 6,185,625 B1 (10) Patent No.:

\*Feb. 6, 2001 (45) Date of Patent:

SCALING PROXY SERVER SENDING TO THE CLIENT A GRAPHICAL USER INTERFACE FOR ESTABLISHING OBJECT **ENCODING PREFERENCES AFTER** RECEIVING THE CLIENT'S REQUEST FOR THE OBJECT

(75) Inventors: Michael Man-Hak Tso, Hillsboro, OR (US); Jin Jing, Vancouver, WA (US); Robert Conrad Knauerhase, Portland, OR (US); David Alfred Romrell, Hillsboro, OR (US); Daniel Joshua Gillespie, Portland, OR (US); Bikram Singh Bakshi, Hillsboro, OR (US); Seshardi Sathyanarayan, Portland, OR

(US)

(73) Assignee: Intel Corporation, Santa Clara, CA (US)

This patent issued on a continued pros-(\*) Notice: ecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C.

154(a)(2).

Under 35 U.S.C. 154(b), the term of this patent shall be extended for 0 days.

(21) Appl. No.: 08/772,164

(22) Filed: Dec. 20, 1996

(51)

U.S. Cl. ...... 709/247; 709/203; 709/217; (52)

345/347

(58)395/200.33, 200.47, 200.48, 200.49, 200.76, 200.77; 709/201-203, 217-219, 246-247; 345/347, 352

References Cited

U.S. PATENT DOCUMENTS

5,373,375 12/1994 Weldy ...... 358/523

5,517,612		5/1996	Dwin et al 395/166
5,544,320			Konrad 395/200.09
5,673,322	*	9/1997	Pepe et al
5,684,969		11/1997	Ishida
5,701,451	*	12/1997	Rogers et al 707/1

(List continued on next page.)

#### OTHER PUBLICATIONS

"MessagePad Solutions for Sales Professionals," Apple Computer, pp. 1-12, May 1995.\*

Berners-Lee, T., et al., RFC 1945, Network Working Group, pp. 1-7 and 22-25, May 1996.\*

Armando Fox and Eric A. Brewer, "Reducing WWW Latency and Bandwidth Requirements by Real-Time Distillation," Fifth International World Wide Web Conference, May 6-10, 1996.

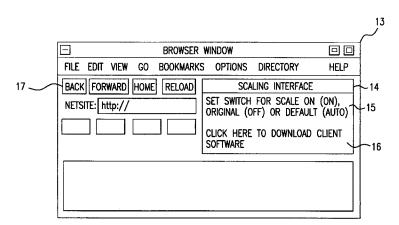
Armando Fox et al., "Adapting to Network and Client Variability via On-Demand Dynamic Distillation," University of Cal. at Berkeley, Sep. 1996.

Primary Examiner—Zarni Maung Assistant Examiner—Andrew Caldwell (74) Attorney, Agent, or Firm-Kenyon & Kenyon

### **ABSTRACT**

A system for enhancing data access over a communications link is disclosed. In accordance with a particular embodiment, a system for retrieving an object over a computer network includes a network client with a browser for rendering an object to a user and a user interface enabling the user to establish an encoding preference. A remote scaling server is coupled between the network client and the computer network, and includes a remote proxy and an encode service provider. The remote scaling server is configured to request a user-specified encoding preference from the network client, retrieve an object from the computer network using the remote proxy, encode the object using the encode service provider in accordance with the requested user-specified encoding preference, and transmit the encoded object to the network client using the remote proxy. The disclosed system thus enables users to dynamically influence the trade-off between quality of content and download speed.

#### 33 Claims, 10 Drawing Sheets





(56)

## US 6,185,625 B1

Page 2

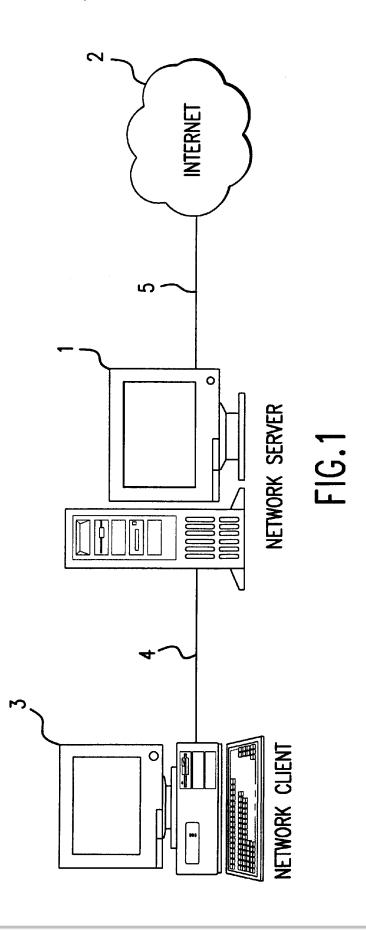
### U.S. PATENT DOCUMENTS

5,706,434	1/1998	Kremen et al 395/200.09
5,724,556	3/1998	Souder et al 395/500
5,727,159 *	3/1998	Kikinis 395/200.76
5,742,768 *	4/1998	Gennaro et al 709/218
5,742,905 *	4/1998	Pepe et al 455/461
5,764,235	6/1998	Hunt et al 345/428
5,768,510	6/1998	Gish 395/200.33
5,805,735	9/1998	Chen et al
5,918,013 *	6/1999	Mighdoll et al 709/217

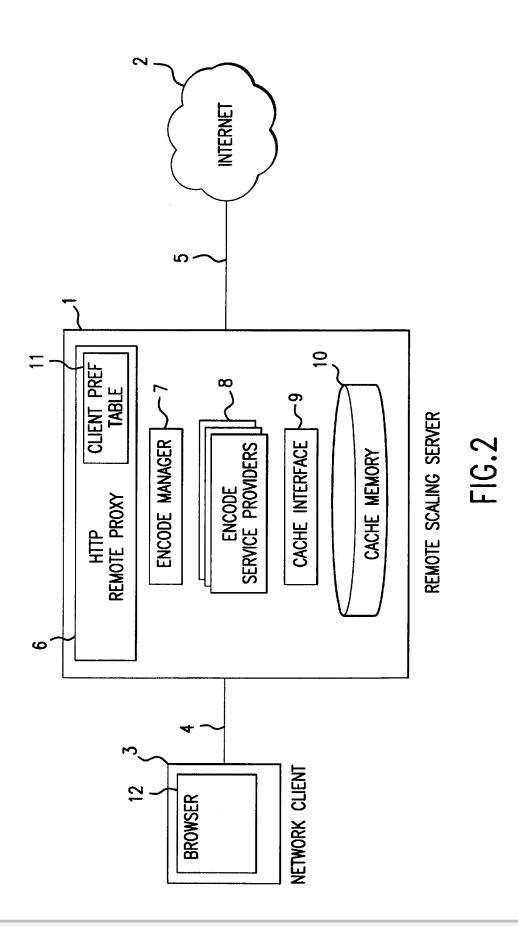
5,991,816 5,996,022 6,018,343 6,049,821 6,076,109 6,088,803	* * * *	11/1999 11/1999 2/2000 4/2000 6/2000 7/2000	Kalra	709/247 709/247 345/356 709/203 709/228 713/201
6,101,328	*	8/2000	Bakshi et al	. 717/11

<sup>\*</sup> cited by examiner

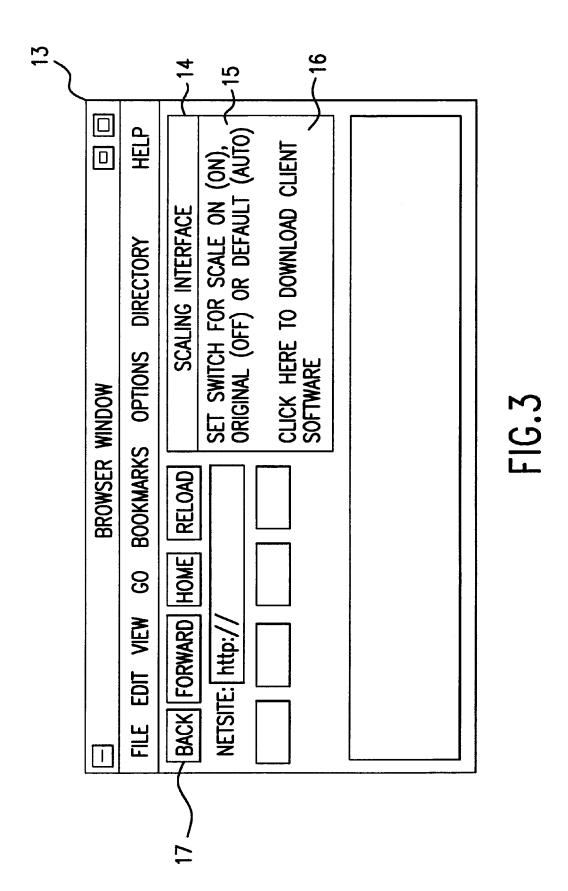














# DOCKET A L A R M

# 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.

