(12) **United States Patent**

Clark et al.

(10) Patent No.: **US 6,725,228 B1**

(45) **Date of Patent:** Apr. 20, 2004

(54) **SYSTEM FOR MANAGING AND ORGANIZING STORED ELECTRONIC MESSAGES**

(76) Inventors: **David Morley Clark**, 920 Innes Street, Nelson, British Columbia V1L 5T2 (CA); **Thomas Wilson Gibson**, 230 High Street, Nelson, British Columbia V1L 3Z9 (CA); **David Mitchell Bracewell**, 708 Third Street, Nelson, British Columbia V1L 2R2 (CA); **Jeff Toy Tsao Kwan**, 12 Arundel Avenue, Toronto, Ontario M4K 3A4 (CA)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 212 days.

(21) Appl. No.: **09/704,199**

(22) Filed: **Oct. 31, 2000**

(51) **Int. Cl.^{7}** **G06F 7/00**

(52) **U.S. Cl.** **707/102**; 707/7

(58) **Field of Search** 707/7, 200, 2, 707/102

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,611,280	A	*	9/1986	Linderman	712/300
4,809,158	A	*	2/1989	McCauley	707/7
5,274,805	A	*	12/1993	Ferguson et al.	707/7
5,377,354	A		12/1994	Scannell et al.	
5,440,734	A	*	8/1995	Wagar	707/7
5,544,360	A		8/1996	Lewak et al.	
5,548,789	A		8/1996	Nakanura	
5,615,367	A	*	3/1997	Bennett et al.	707/102
5,694,616	A	*	12/1997	Johnson et al.	709/207
5,813,009	A	*	9/1998	Johnson et al.	707/100
5,899,995	A		5/1999	Millier et al.	
5,948,058	A	*	9/1999	Kudoh et al.	707/104.1
6,009,442	A		12/1999	Chen et al.	
6,029,164	A		2/2000	Birrell et al.	
6,057,841	A		5/2000	Thurlow et al.	
6,073,131	A	*	6/2000	Roberti	707/7
6,073,142	A	*	6/2000	Geiger et al.	707/500
6,088,696	A	*	7/2000	Moon et al.	707/10
6,154,740	A	*	11/2000	Shah	707/7
6,167,402	A	*	12/2000	Yeager	707/10
6,182,071	B1	*	1/2001	Fushimi	707/7
6,226,630	B1	*	5/2001	Billmers	707/3
6,324,569	B1	*	11/2001	Ogilvie et al.	707/500
6,396,513	B1	*	5/2002	Helfman et al.	709/206
6,424,995	B1	*	7/2002	Shuman	709/206
6,449,615	B1	*	9/2002	Liu et al.	707/10
6,466,941	B1	*	10/2002	Rowe et al.	707/102
6,507,846	B1	*	1/2003	Consens	707/100

FOREIGN PATENT DOCUMENTS

EP	WO99/04344	1/1999

OTHER PUBLICATIONS

Microsoft Internet Explorer 1995–2001.*
Dvorak, John C., *Scarier Than Spam,* Jan. 4, 1999, pp. 1–2.
De La Cruz et al., *Inside MAPI,* ©1996, pp. 528–541 (Table of Contents also included).
MSDN Library—Apr. 1999, Messaging API (MAPI), Legal Information, Developing a Message Store Provider.
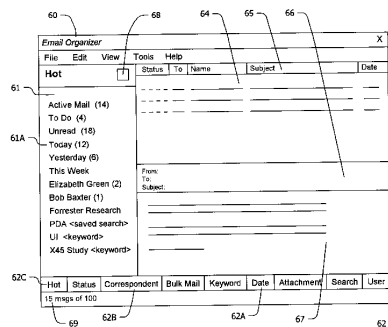
* cited by examiner

Primary Examiner—Kim Vu
Assistant Examiner—Monplaisir Hamilton
(74) *Attorney, Agent, or Firm*—Oyen, Wiggs, Green & Mutala

(57) **ABSTRACT**

A computer-based system catalogs and retrieves electronic messages saved in a message store. The system automatically organizes each saved message into multiple folders based on the contents and attributes of the message, and implements improved methods for manually organizing messages. Unlike prior art systems, where a message exists in only one folder, the system uses lightweight message shortcuts to display the message in multiple folders simultaneously. The system preferably permits messages to be organized by: 1) basic message and attachment properties, e.g. date, status, attachment type; 2) extended message properties that the user can specify, e.g. keywords; and 3) correspondent or bulk mail sender/recipient, with automatic separation of bulk mail from correspondence. Performance and usability are improved by performing reads incrementally and by providing multiple sorting keys.
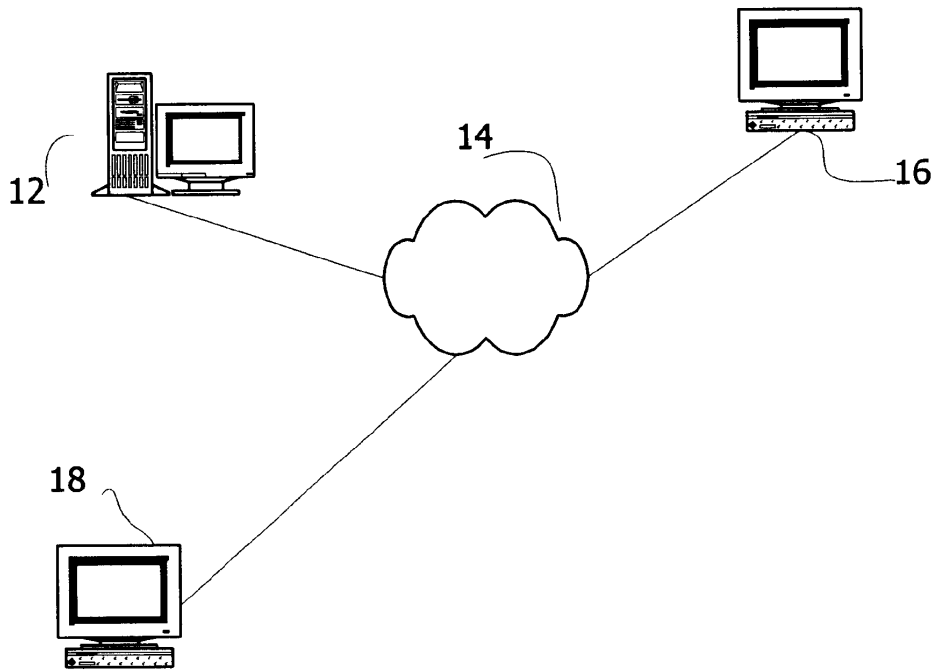
34 Claims, 33 Drawing Sheets

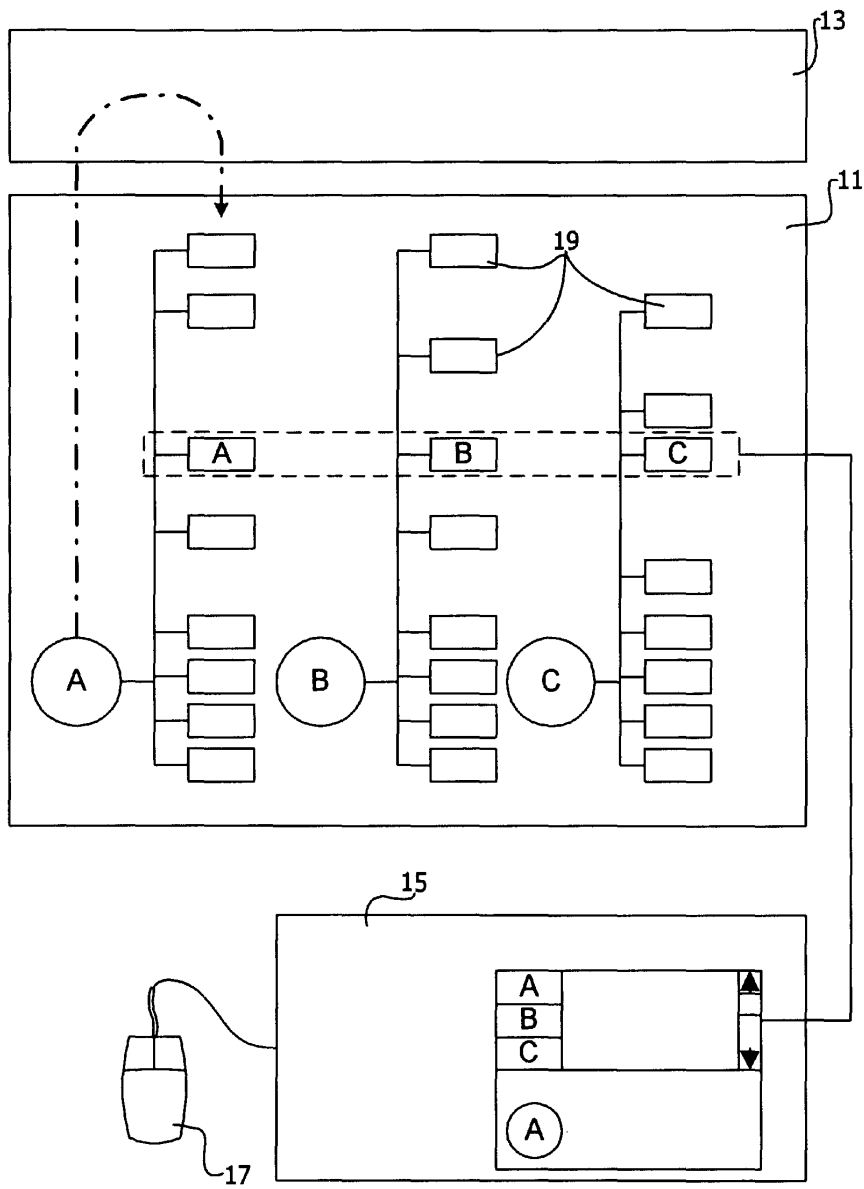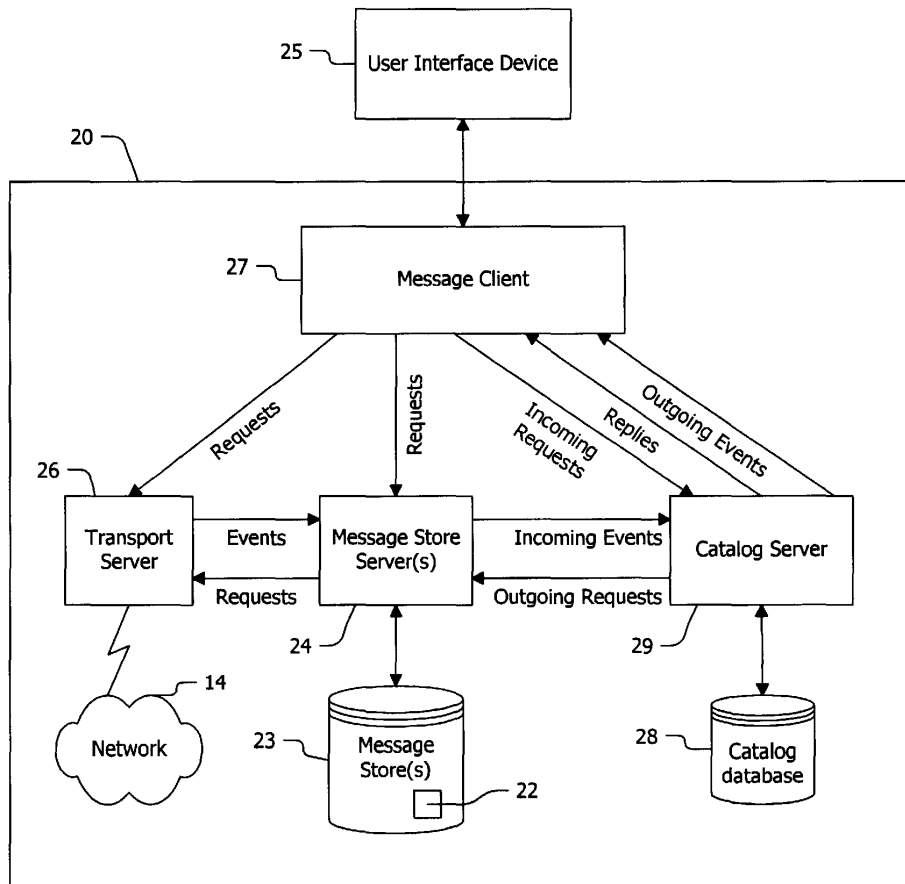# FIG. 1A

FIG. 1B

FIG. 2

22

38

33

Transport Header

ReceiveDate: Today 10:10:05
Direction: Received

32

Envelope

From: Tom Gibson
To: David Clark
Cc: David Bracewell

36

Contents

Subject: White paper
Body: Here is the white paper
for your review.

36A

Attachment: White Paper.doc

34

Status & Organizational
Information

Status: IsUnread
IsActive

Keywords: Marketing
White Paper

Date
|--- Today
|--- This Week
|--- This Month

Status
|--- Received

Correspondent
|--- Tom Gibson

Attachment
|--- All Attachments
|--- DOC

Status
|--- Unread
|--- Active Mail

Keywords
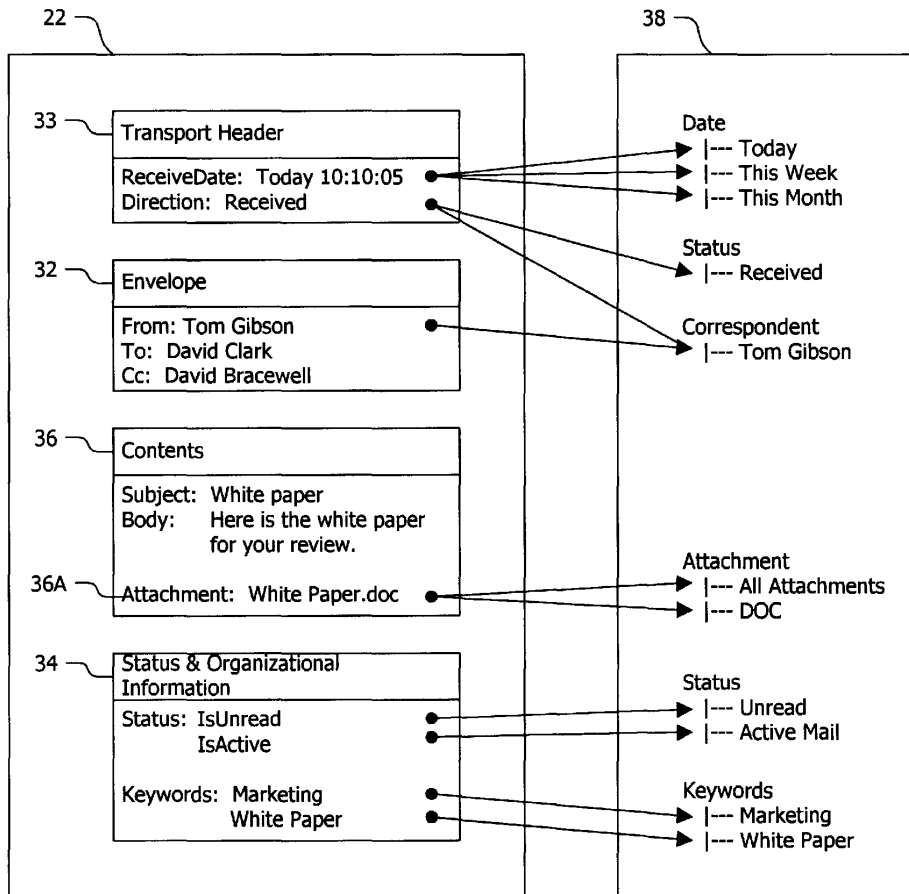|--- Marketing
|--- White Paper

FIG. 3

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.