

United States Patent [19]

Aytac

[11] **Patent Number:** 5,758,081[45] **Date of Patent:** May 26, 1998

[54] **COMPUTING AND COMMUNICATIONS TRANSMITTING, RECEIVING SYSTEM, WITH A PUSH BUTTON INTERFACE, THAT IS CONTINUOUSLY ON, THAT PAIRS UP WITH A PERSONAL COMPUTER AND CARRIES OUT MAINLY COMMUNICATIONS RELATED ROUTINE TASKS**

[76] **Inventor:** Haluk M. Aytac, 10270 Parkwood Dr.
8, Cupertino, Calif. 95014

[21] **Appl. No.:** 569,846

[22] **Filed:** Dec. 8, 1995

[51] **Int. Cl.⁶** G06F 1/32

[52] **U.S. Cl.** 395/200.41; 395/821

[58] **Field of Search** 395/871, 474,
395/200.01, 200.05, 281, 306, 309, 802,
892, 882, 285, 500, 200.41; 345/156

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,688,171	8/1987	Selim et al.	395/200.02
4,839,802	6/1989	Wonak et al.	395/834
4,878,196	10/1989	Rose	395/750
4,974,192	11/1990	Face et al.	395/821
4,982,324	1/1991	McConaughy et al.	395/200.09
4,994,963	2/1991	Rorden et al.	395/309
5,239,632	8/1993	Larner	395/306
5,361,134	11/1994	Hu et al.	358/296
5,367,647	11/1994	Coulson et al.	395/285
5,530,894	6/1996	Farrell et al.	395/800
5,577,205	11/1996	Hwang et al.	395/200.01
5,590,339	12/1996	Chang	395/838

OTHER PUBLICATIONS

AT & T Computer Telephone 8130.
Zyxxel Elite 2864 Modem.
IBM Seho Assistant, 7852001.

Brooktrout Quadrafax 2.0 Fax on Demand System.

Conon Multipass 1000 Multifunction Peripheral.

Lumina Series 2000 Multifunction Peripheral w/o Printer.

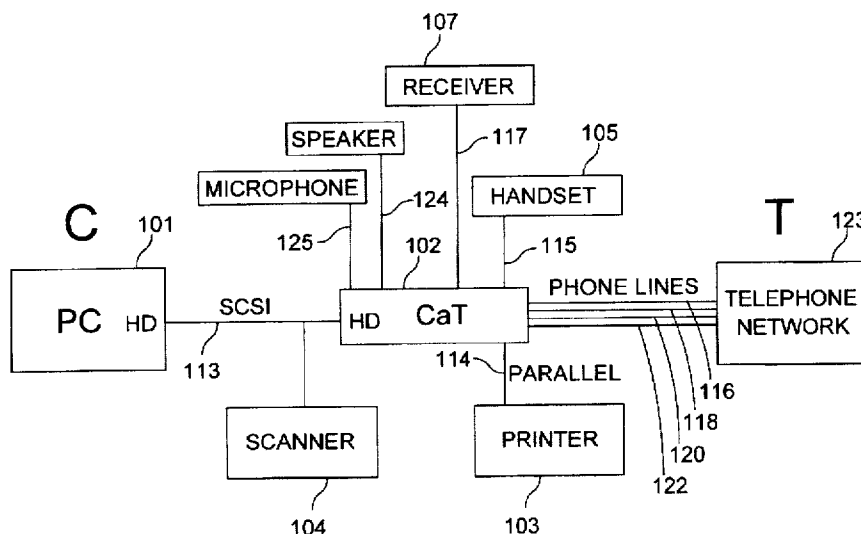
Pacific Image Electronics Scon Media Multifunction Peripheral without a Printer.

Primary Examiner—Dinh C. Dung

[57] **ABSTRACT**

An embedded computer, CaTbox, is connected to a PC via SCSI cable, and to a telecommunications switch. CaTbox runs an operating system, CaTOS, and contains a hard disk accessible to PC as a SCSI disk called CaTdisc. Print jobs issued from PC are transferred as files to CaTdisc, queued by CaTOS and driven in the foreground to a printer attached to CaTbox. CaTbox has an LCD screen, keypad, and is connected to telephone handsets. While PC and printer are off, CaTbox receives faxes, voicemail, email and stores them on CaTdisc. It delivers HTML pages stored on CaTdisc. Keypad directed, CaTbox plays voicemail and prints faxes or email. Modems on CaTbox, CaTmodems, are available for data, voice, fax communications from PC. A scanner on SCSI bus may be driven by CaTbox via keypad to scan documents to store on CaTdisc, print or send as faxes. CaTOS has step tables for each modem, actions, foreground programs, configuration files, and queues. Steps hold actions that execute within a time slice for a modem during timer tick. Actions emit, record messages, queue foreground program requests, queue requests for another step, call other actions, idle, answer a call etc. Steppers within each time slice move execution from step to step based on keypad inputs, events, conditions, and contents of step tables. Foreground programs move files to, from memory, print, scan etc. Idle actions check a queue for steps to execute. A scheduler runs after timer ticks to choose the next foreground program.

14 Claims, 16 Drawing Sheets



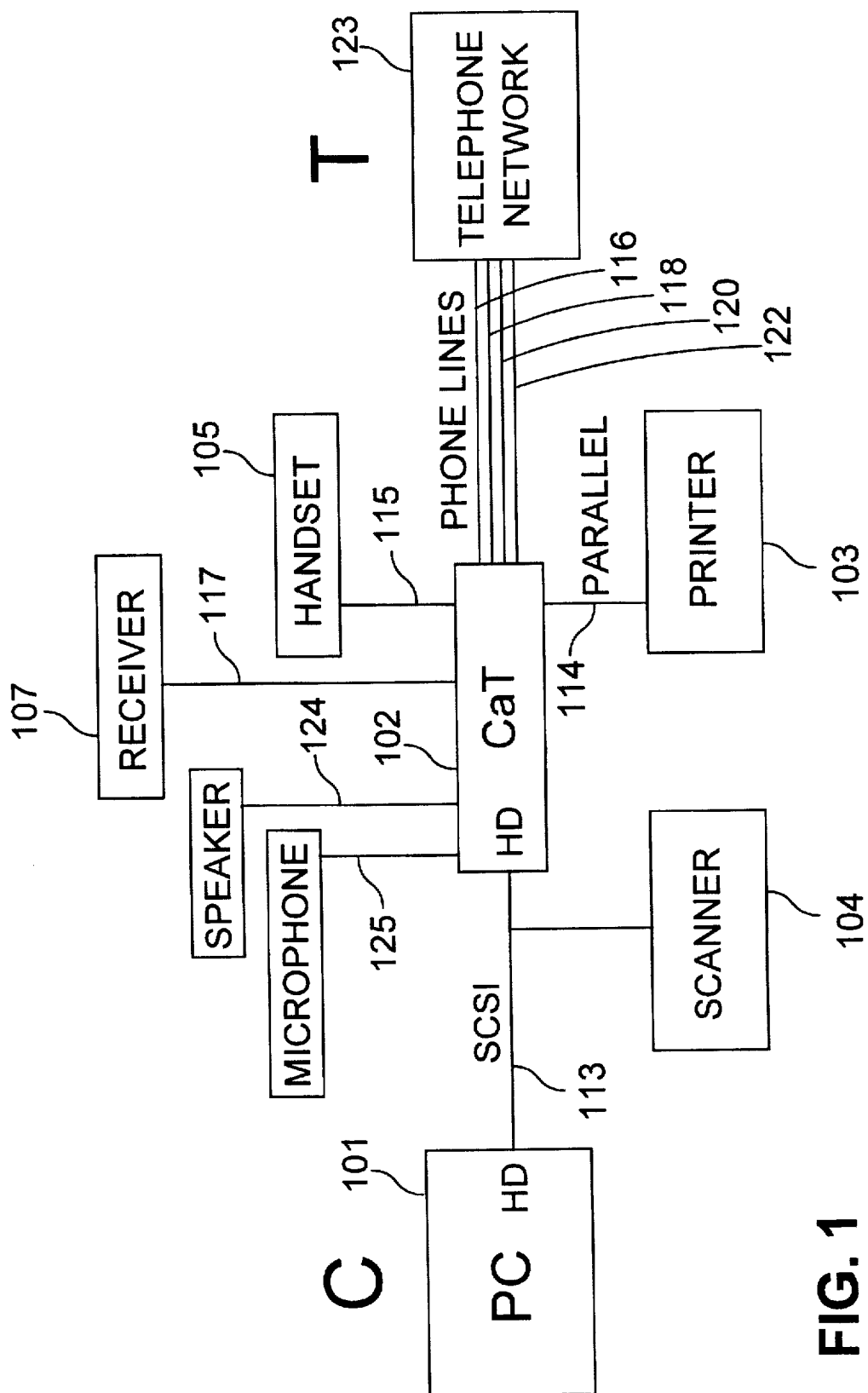
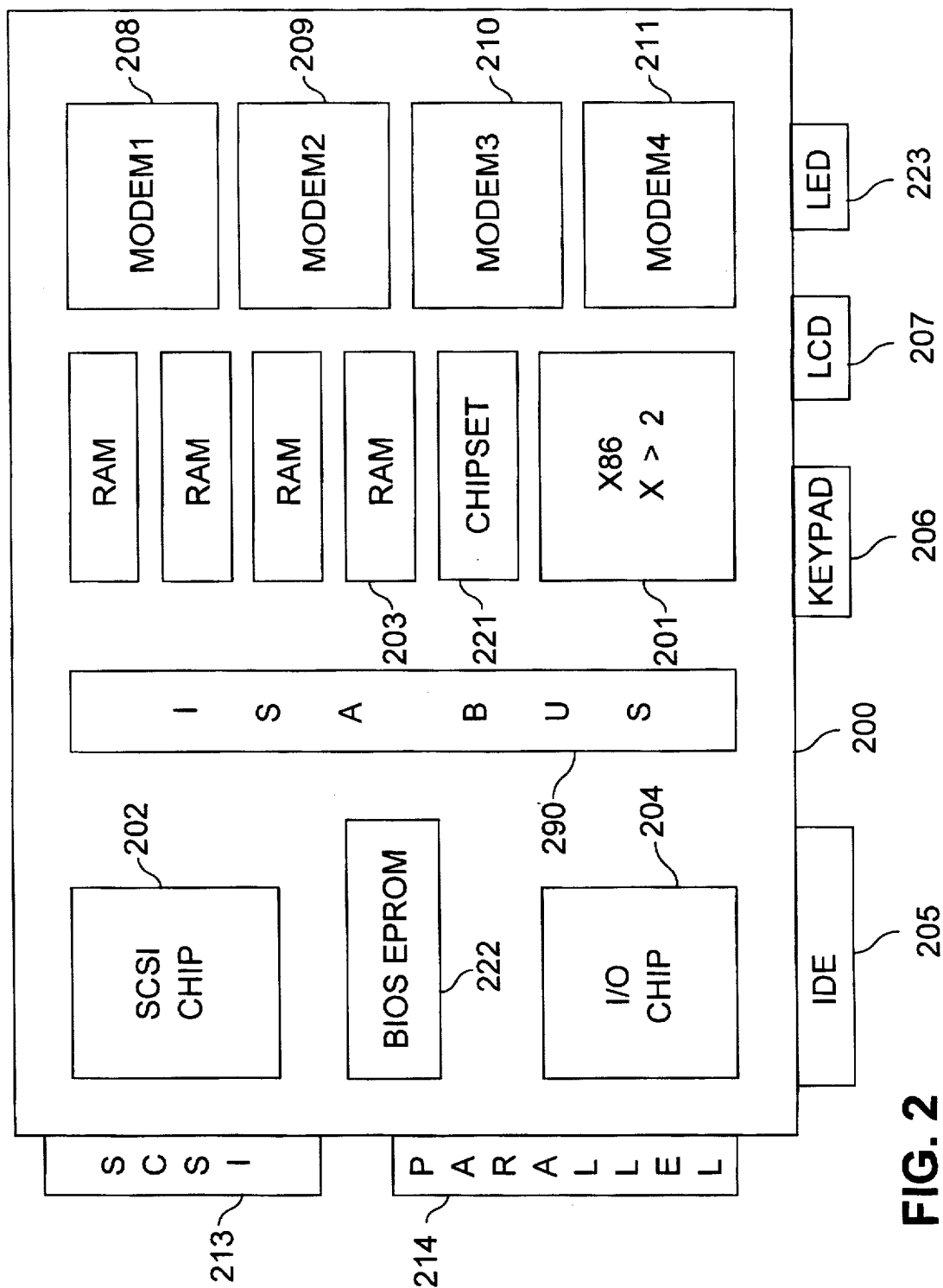


FIG. 1

**FIG. 2**

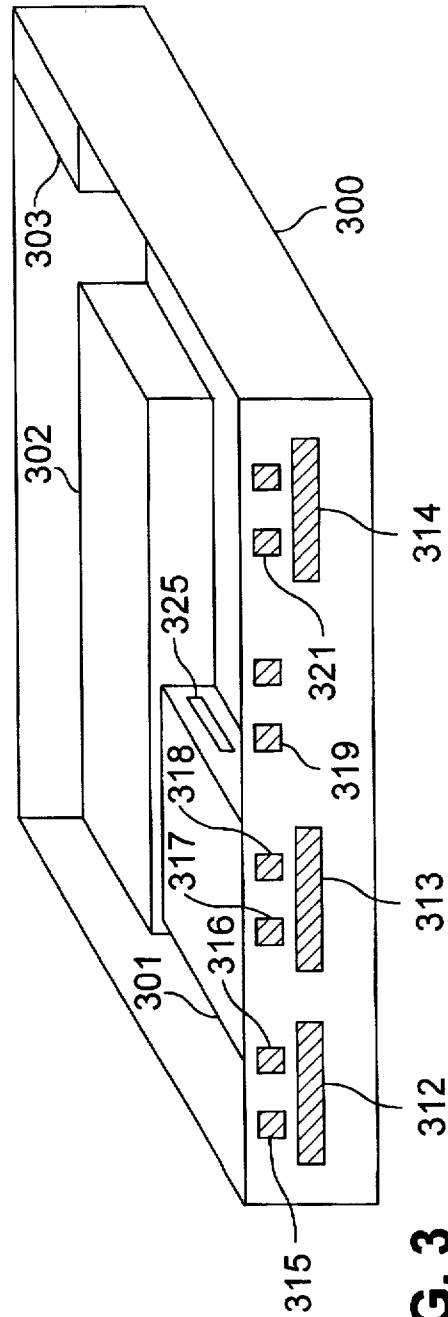
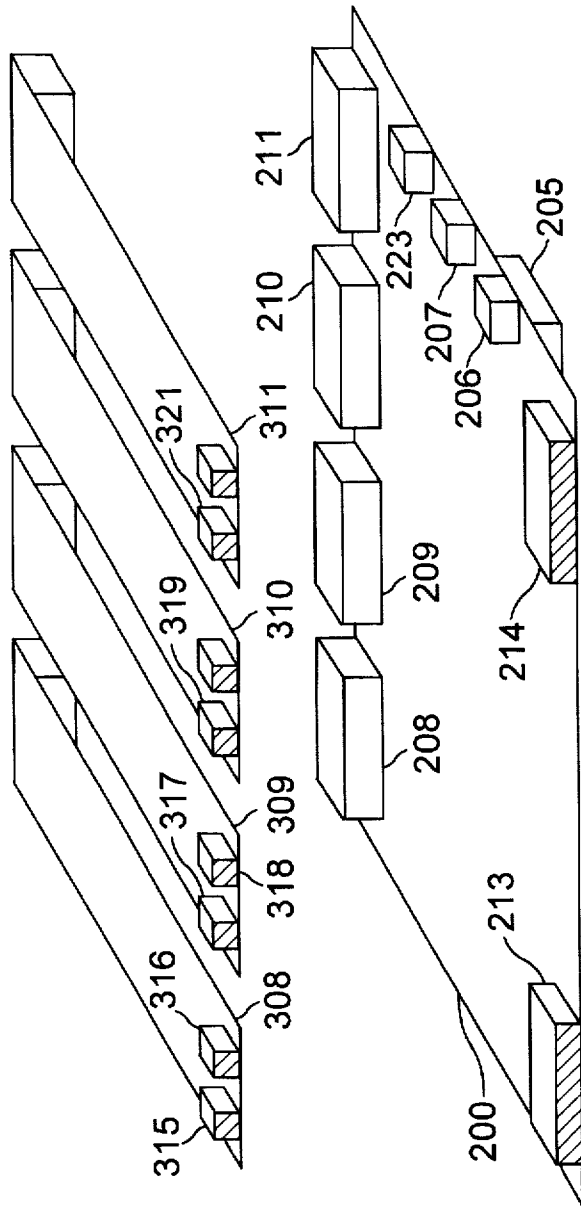


FIG. 3

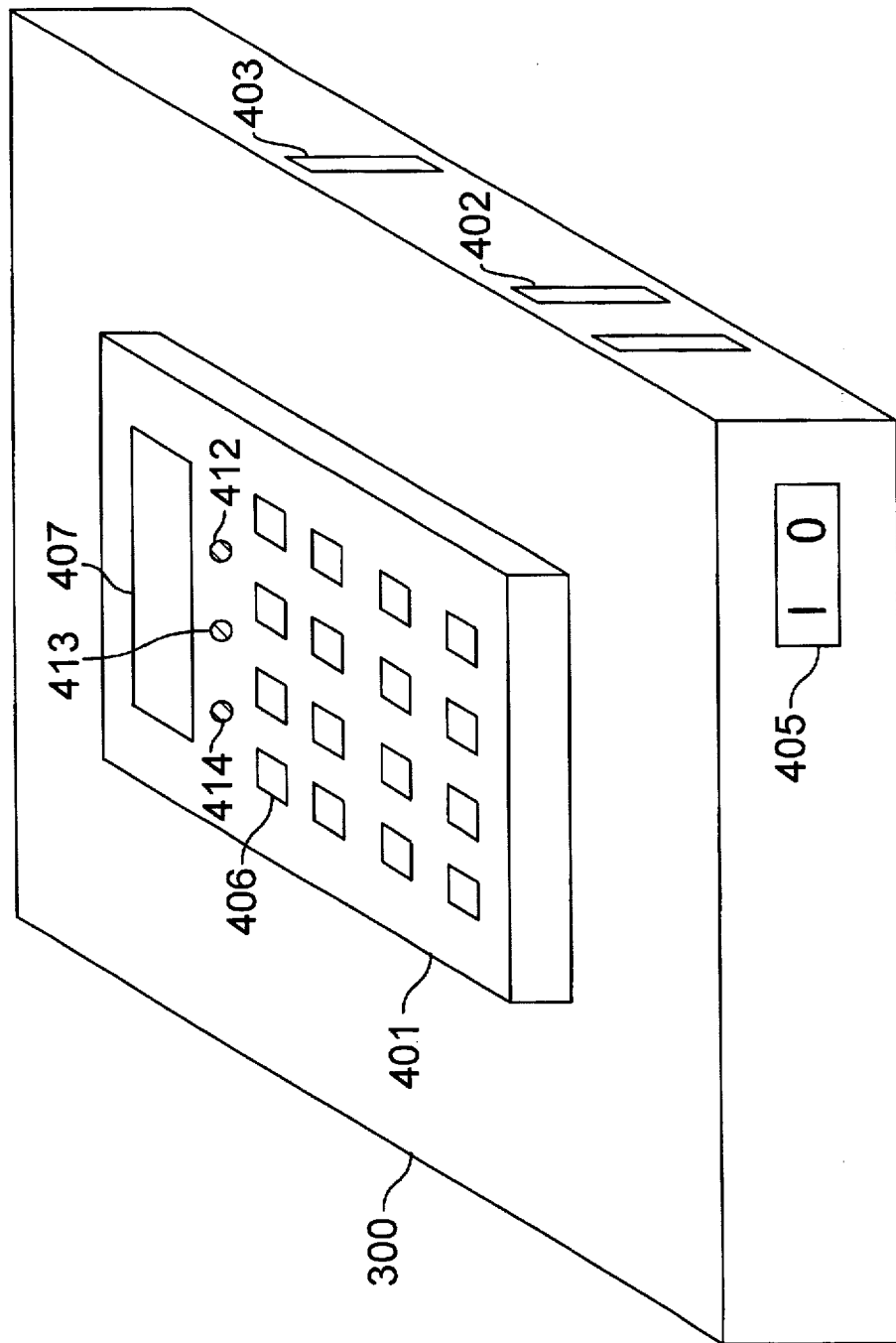


FIG. 4



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.