

US005752044A

United States Patent [19]

Crump et al.

5,142,684

5,167,024

5.193,176

5,218,704 5,283,819 [11] Patent Number: 5,752,044 [45] Date of Patent: May 12, 1998

5,300,831	4/1994	Pham et al
5,355,501	10/1994	Gross et al.
5,369,771	11/1994	Gettel .
5,410,711	4/1995	Stewart .
5,410,713	4/1995	White et al

5,504,907

FOREIGN PATENT DOCUMENTS

4/1996 Stewart et al. 395/750

0 518 622 A1 12/1992 European Pat. Off. . 59-77531 4/1984 Japan .

Primary Examiner—Jack B. Harvey Assistant Examiner—Jeffrey K. Seto Attorney, Agent, or Firm—Calfee, Halter & Griswold LLP

[57] ABSTRACT

A computer system having suspend and resume capabilities using multiple suspend timers. The multiple suspend timers execute such that the computer system suspends after a longer period of time of user inactivity when the system is powered up in an attended mode and suspends after a shorter period of time of inactivity when the system is powered up in an unattended mode. If the system awakens in an unattended mode and user activity is subsequently detected, the system changes to suspend after the longer period of time of user inactivity. The multiple timers are implemented either by a single timer restarted to two different values or by two independent timers having different expiration values.

27 Claims, 57 Drawing Sheets

[54]	COMPUTER SYSTEM HAVING MULTI- LEVEL SUSPEND TIMERS TO SUSPEND
	FROM OPERATION IN ATTENDED AND UNATTENDED MODES
[75]	Inventors: Dwayne Thomas Crump. Apex; Duane Edward Norris; Steven Taylor Pancoast, both of Raleigh, all of N.C.
[73]	Assignee: International Business Machines Corporation, Armonk, N.Y.
[21]	Appl. No.: 477,857
[22]	Filed: Jun. 7, 1995
[51]	Int. Cl. ⁶ G06F 1/32
	U.S. Cl 395/750; 395/838
[58]	Field of Search 395/750, 838
[56]	References Cited
	U.S. PATENT DOCUMENTS
4	,851,987 7/1989 Day .
	,008,829 4/1991 Cox et al.
5	,021,983 6/1991 Nguyen et al

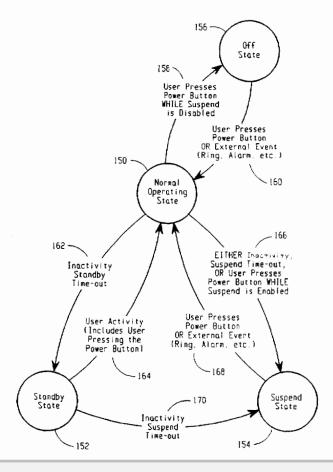
8/1992 Perry et al. .

2/1994 Glick et al. .

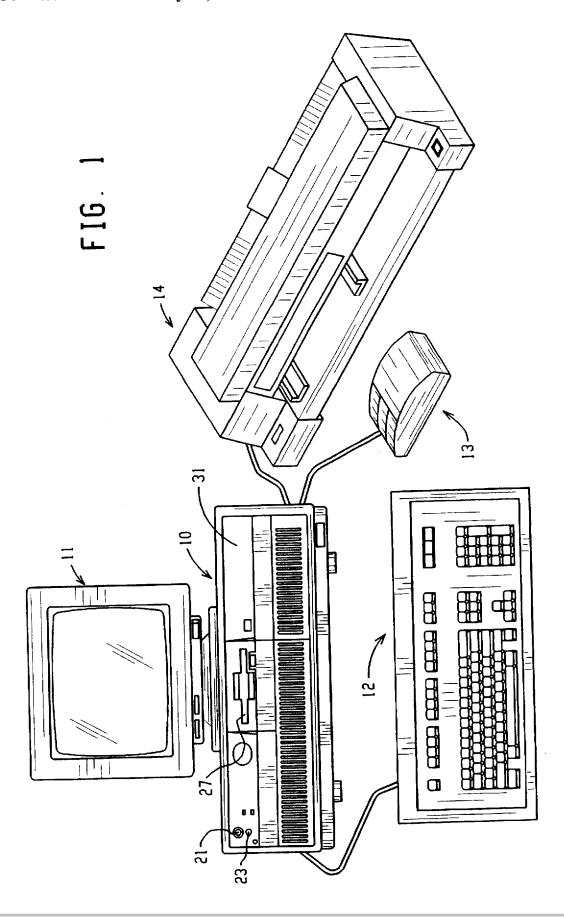
3/1993 Brandin . 6/1993 Watts, Jr. et al. .

Smith .

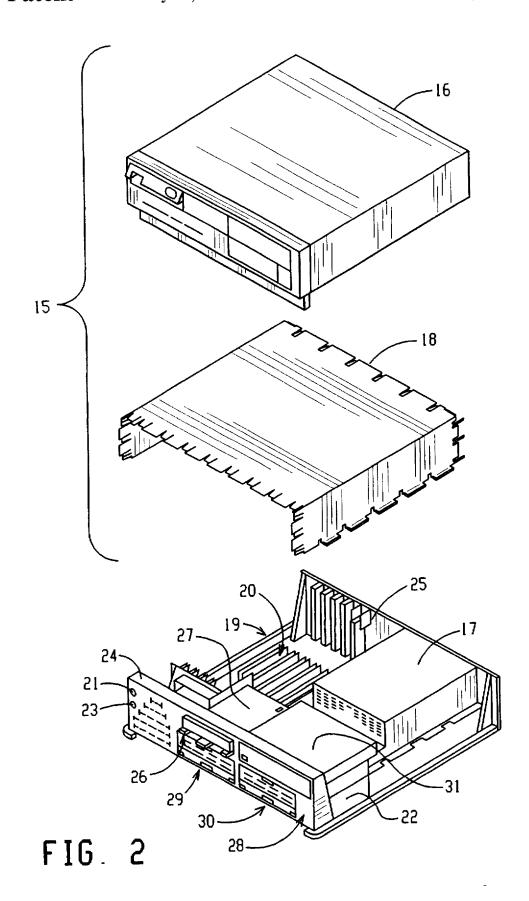
11/1992

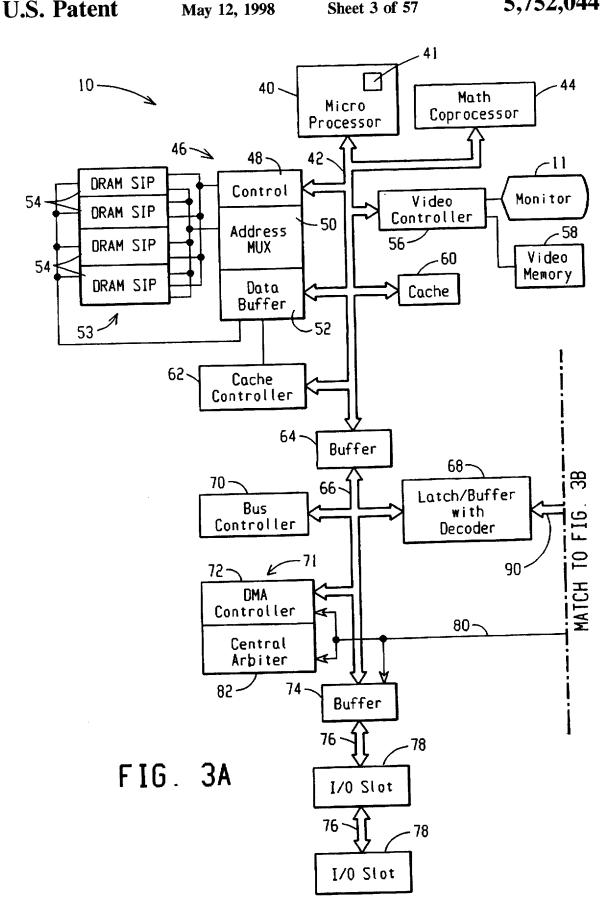




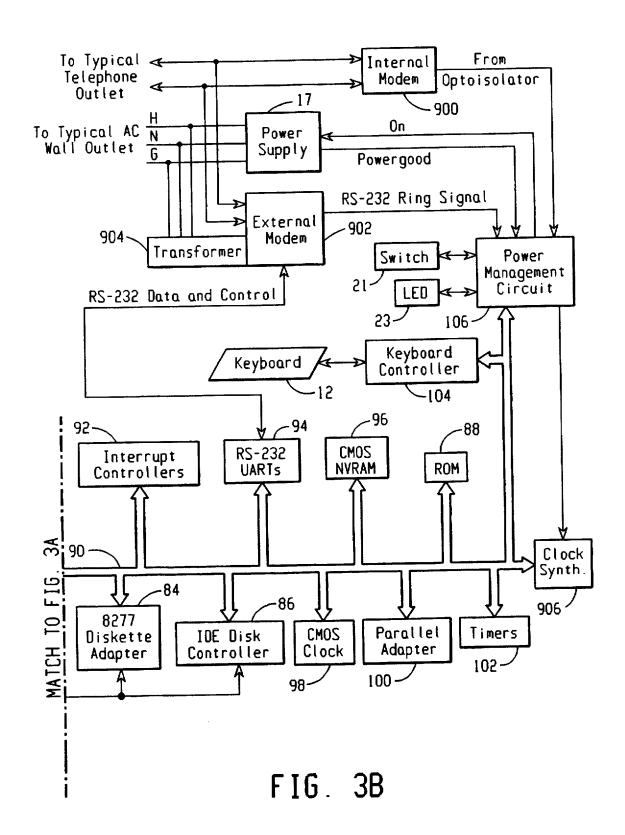














DOCKET

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.

