United States Patent [19]

Jeon

[11] Patent Number: 6,000,023

[45] Date of Patent: Dec. 7, 1999

[54] **METHOD FOR PARTITIONING STORAGE REGIONS ON HARD DISK AND COMPUTER SYSTEM ADAPTED TO THE SAME**

[75] Inventor: **Young-IL Jeon**, Kyunggi-do, Rep. of Korea

[73] Assignee: **SamSung Electronics Co., Ltd.**, Kyungki-do, Rep. of Korea

[21] Appl. No.: **08/897,252**

[22] Filed: **Jul. 18, 1997**

[30] **Foreign Application Priority Data**

Jul. 19, 1996 [KR] Rep. of Korea 96-29398

[51] **Int. Cl.^{6}** **G06F 12/00**

[52] **U.S. Cl.** **711/173**; 711/4; 711/11

[58] **Field of Search** 711/111, 161, 711/173, 4

[56] **References Cited**

U.S. PATENT DOCUMENTS

5,136,711	8/1992	Hugard et al.	....	710/8
5,600,840	2/1997	Pearce et al.	....	711/161
5,675,769	10/1997	Ruff et al.	....	711/173
5,706,472	1/1998	Ruff et al.	....	711/173

Primary Examiner—Jack A. Lane
Attorney, Agent, or Firm—Robert E. Bushnell, Esq.

[57] **ABSTRACT**

A method for partitioning a magnetic hard disk is disclosed which comprises obtaining an ending position of the file allocation table area by using information stored in the boot sector of the hard disk, detecting contents of the file allocation table (FAT) to obtain a starting position of areas, where data is not stored, of the data storage area, and setting the starting position as a starting position of a second of the at least two partition blocks. With the disk partitioning method, the second partition block is overlapped with a part of a first of the at least two partition blocks. Even though program files including a testing program of the computer system are erased from the second partition block (i.e., overlapped region), the computer system can recognize the whole area of the hard disk as an available limit storage region.
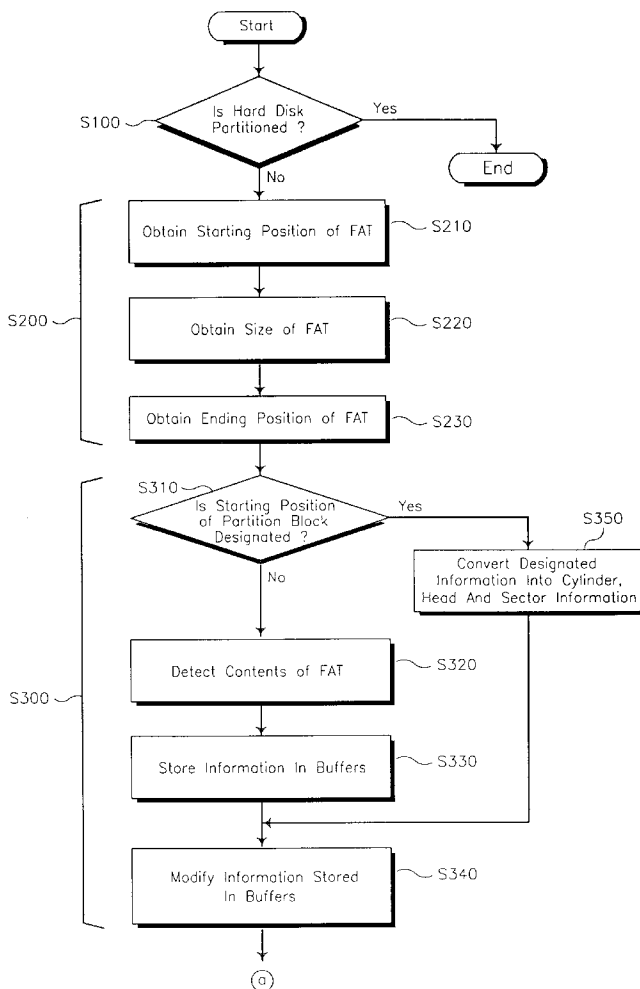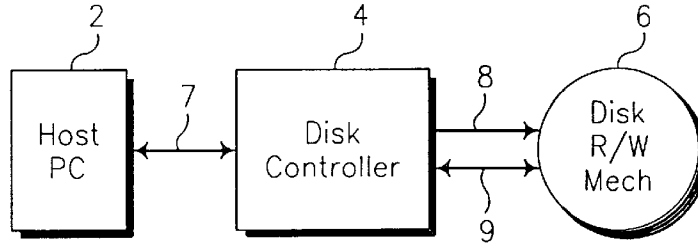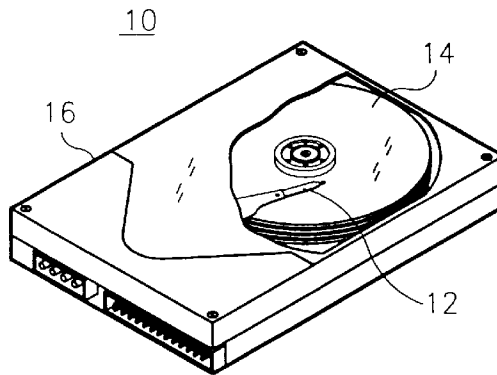
9 Claims, 7 Drawing Sheets
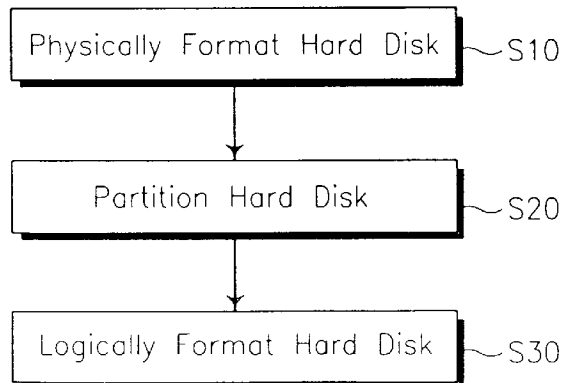
Fig.1A

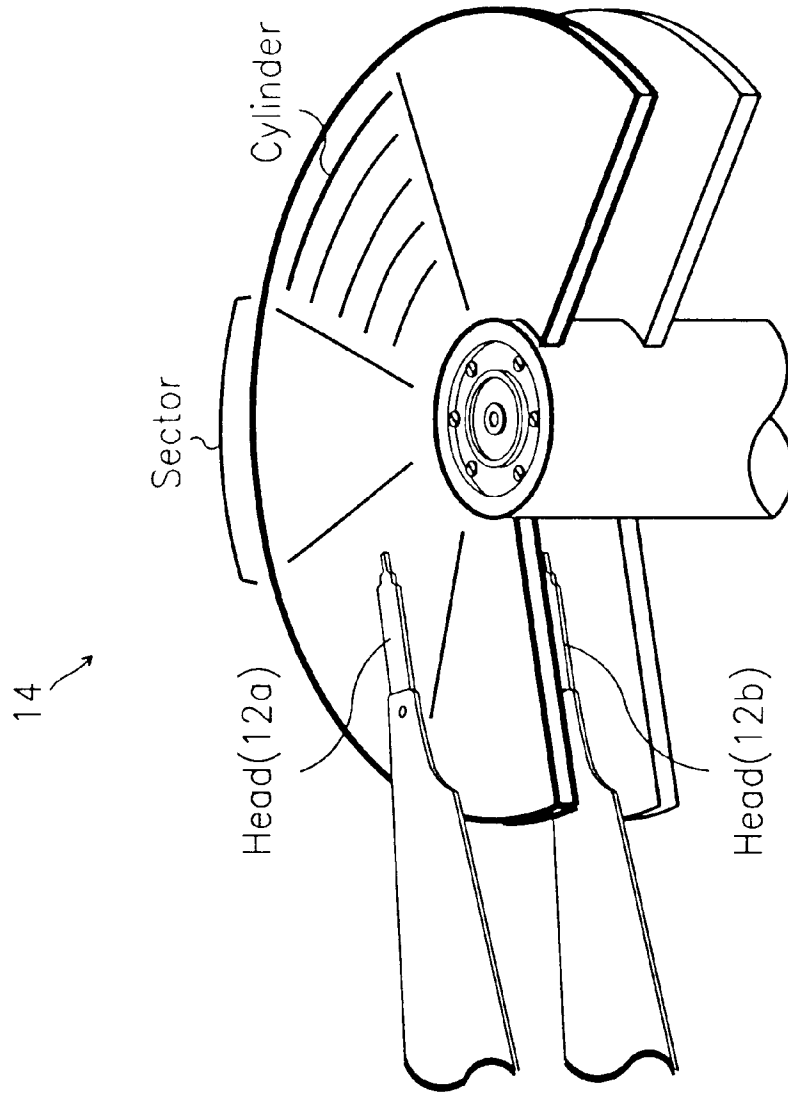(Prior Art)

Fig.1B

(Prior Art)

Fig. 2

(Prior Art)

Physically Format Hard Disk	S10
Partition Hard Disk	S20
Logically Format Hard Disk	S30

Fig. 3

(Prior Art)

14

Cylinder

Sector

Head(12a)

Head(12b)

Fig. 4

(Prior Art)

Entire Region of Hard Disk _20

| C | D |

22 1st Partition   2nd Partition 24

Fig. 5

| Boot Sector | FAT | Root Directory |

2nd Partition
(Overlapped Region)
~32

D

C

1st Partition   30
(Whole Region of Hard Disk)

Fig. 6A

Start

S100 — Is Hard Disk Partitioned ?

Yes → End

No

S200 {
Obtain Starting Position of FAT — S210

Obtain Size of FAT — S220

Obtain Ending Position of FAT — S230
}

S310 — Is Starting Position of Partition Block Designated ?

Yes → Convert Designated Information Into Cylinder, Head And Sector Information — S350

No

S300 {
Detect Contents of FAT — S320

Store Information In Buffers — S330

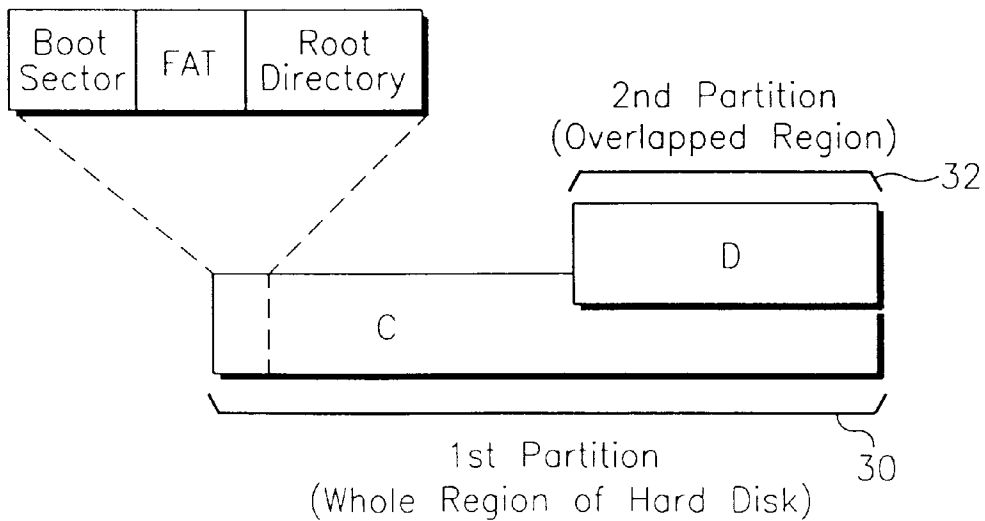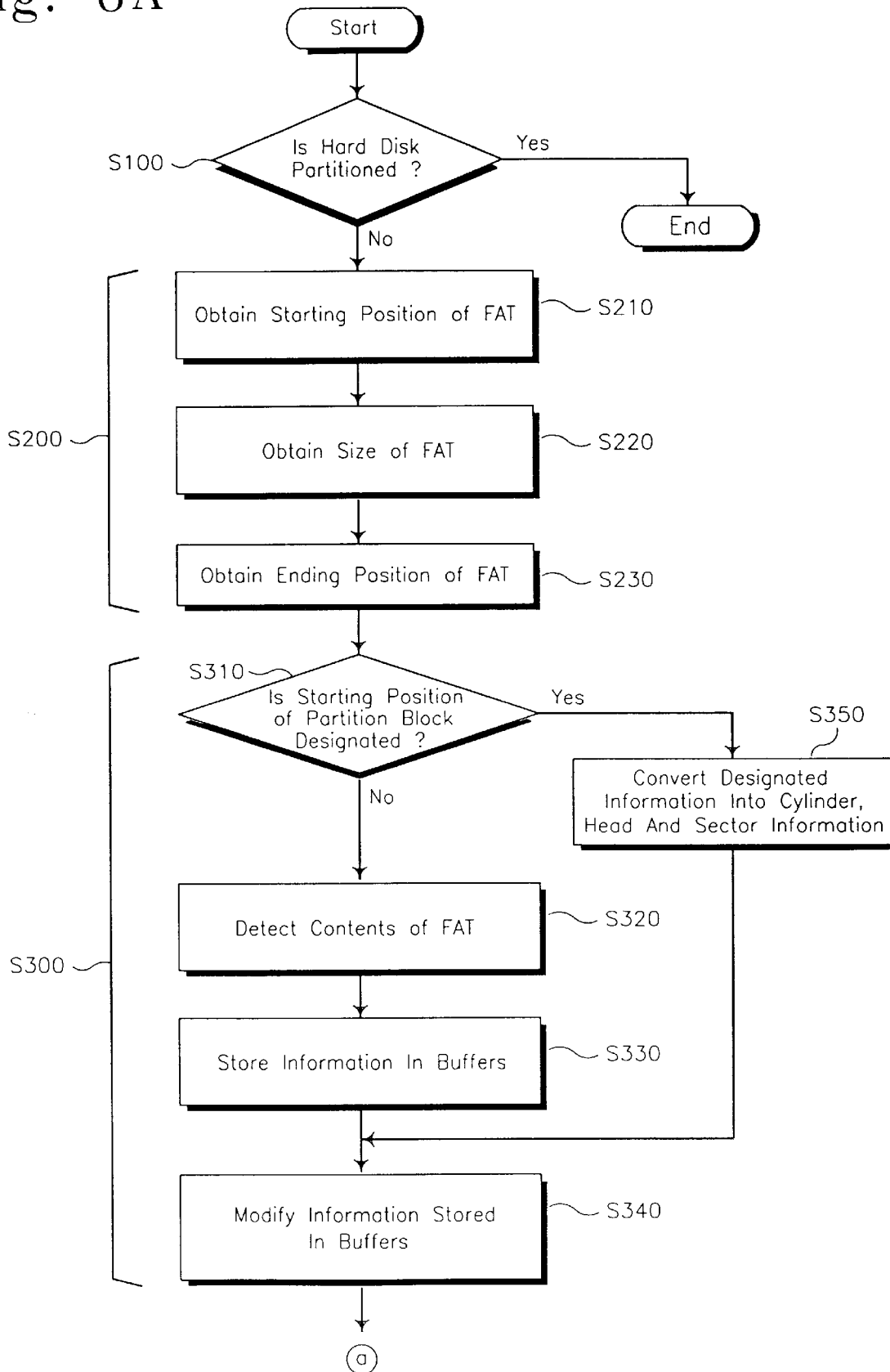Modify Information Stored In Buffers — S340
}

(a)

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.