

(12) United States Patent
Dumas et al.

(10) Patent No.: US 6,199,163 B1
(45) Date of Patent: Mar. 6, 2001

- (54) **HARD DISK PASSWORD LOCK**
- (75) Inventors: **Patrick A. Dumas**, Barrington; **Mark Pulver**, Elmhurst, both of IL (US)
- (73) Assignee: **NEC Corporation**, Tokyo (JP)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

5,231,662	*	7/1993	van Rumpt et al.	380/9
5,283,828	*	2/1994	Saunders et al.	380/4
5,327,563	*	7/1994	Singh	380/4
5,343,525	*	8/1994	Hung et al.	380/4
5,375,243	*	12/1994	Parzych et al.	380/4
5,497,419	*	3/1996	Hill	380/9
5,513,262	*	4/1996	van Rumpt et al.	380/4
5,615,262	*	3/1997	Guy et al.	380/4
6,038,220	*	3/2000	Miller	380/44

* cited by examiner

- (21) Appl. No.: **08/621,672**
- (22) Filed: **Mar. 26, 1996**
- (51) Int. Cl.⁷ **H04K 1/00**
- (52) U.S. Cl. **713/183; 713/184**
- (58) Field of Search 380/44, 94; 713/183, 713/184

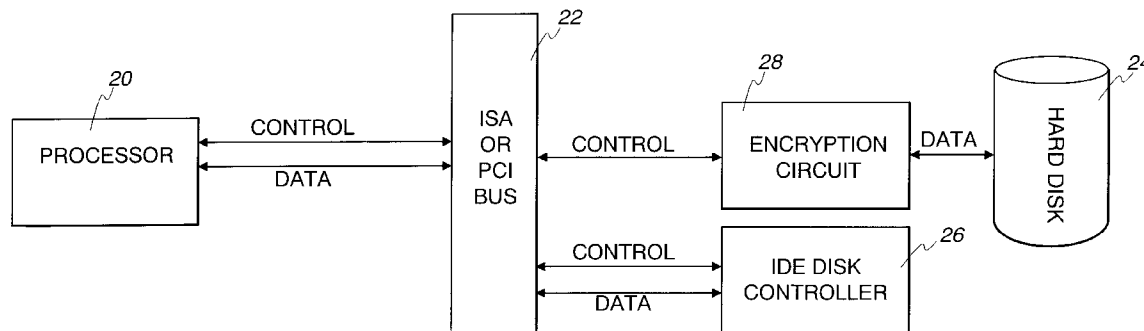
Primary Examiner—Salvatore Cansialosi
(74) Attorney, Agent, or Firm—Katten Muchin Zavis

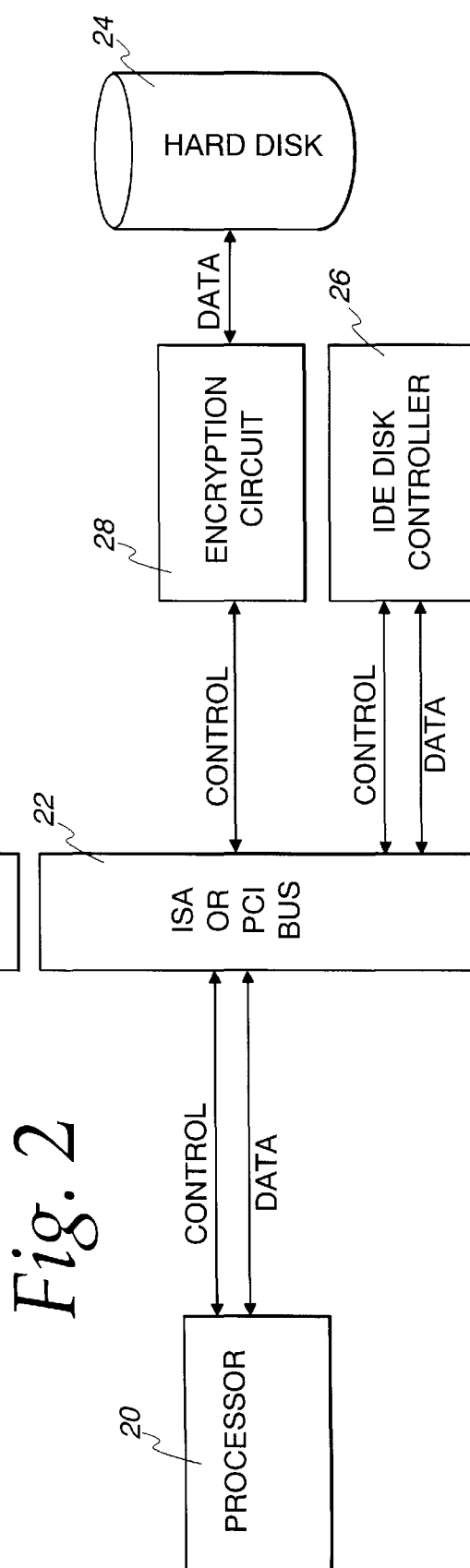
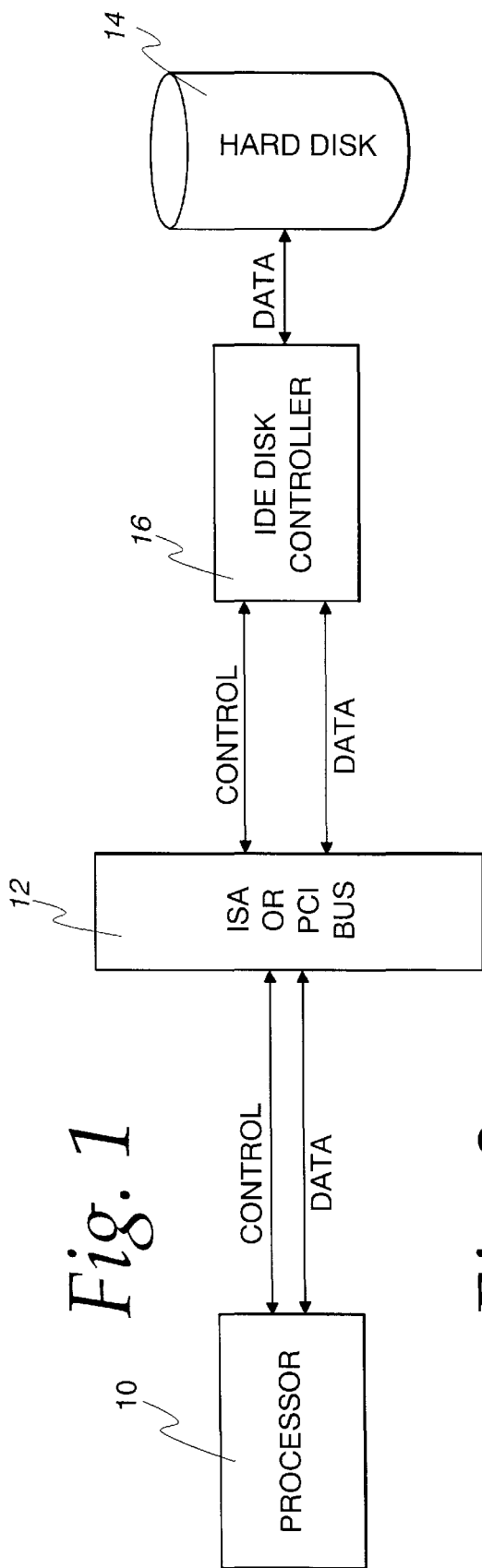
(57) ABSTRACT

The invention provides an encryption circuit for encrypting and decrypting data as it travels to and from a hard disk. The encryption circuit can be turned on or off under control of the BIOS program and a user supplied password. With the present invention, a removed hard disk cannot be read without the user supplied password and a similar encryption circuit.

- (56) **References Cited**
U.S. PATENT DOCUMENTS
 4,937,861 * 6/1990 Cummins 380/4
 5,212,729 * 5/1993 Schafer 380/4

8 Claims, 5 Drawing Sheets





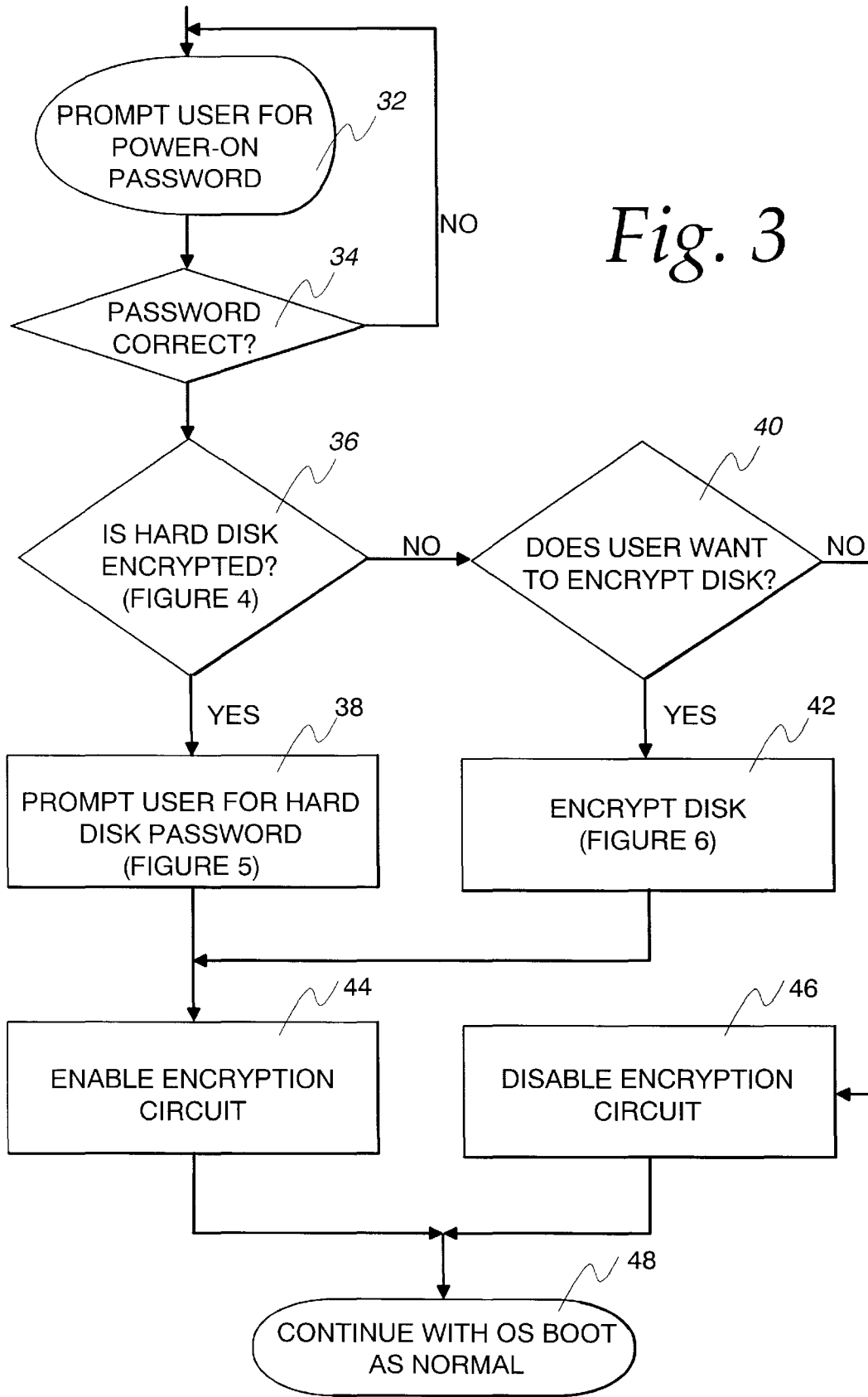


Fig. 3

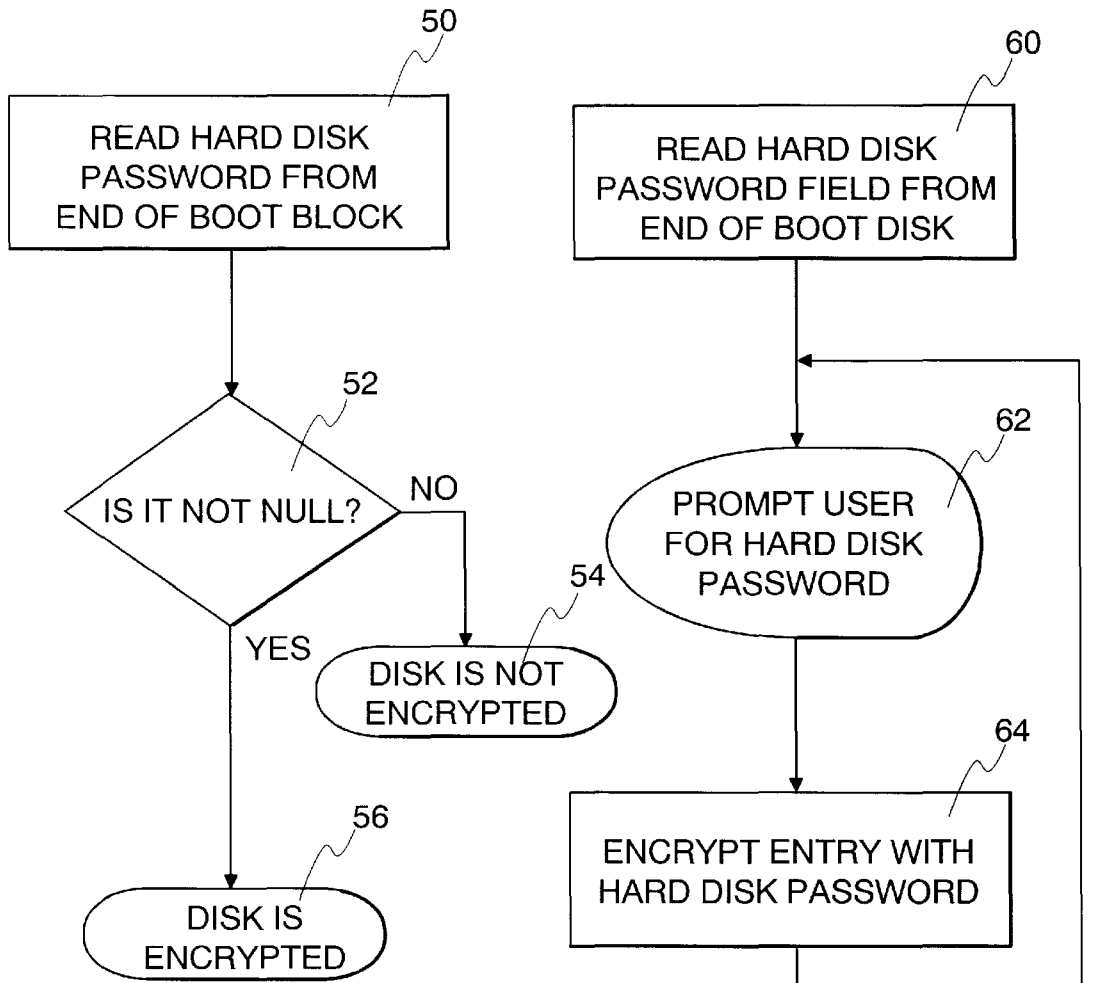


Fig. 4

Fig. 5

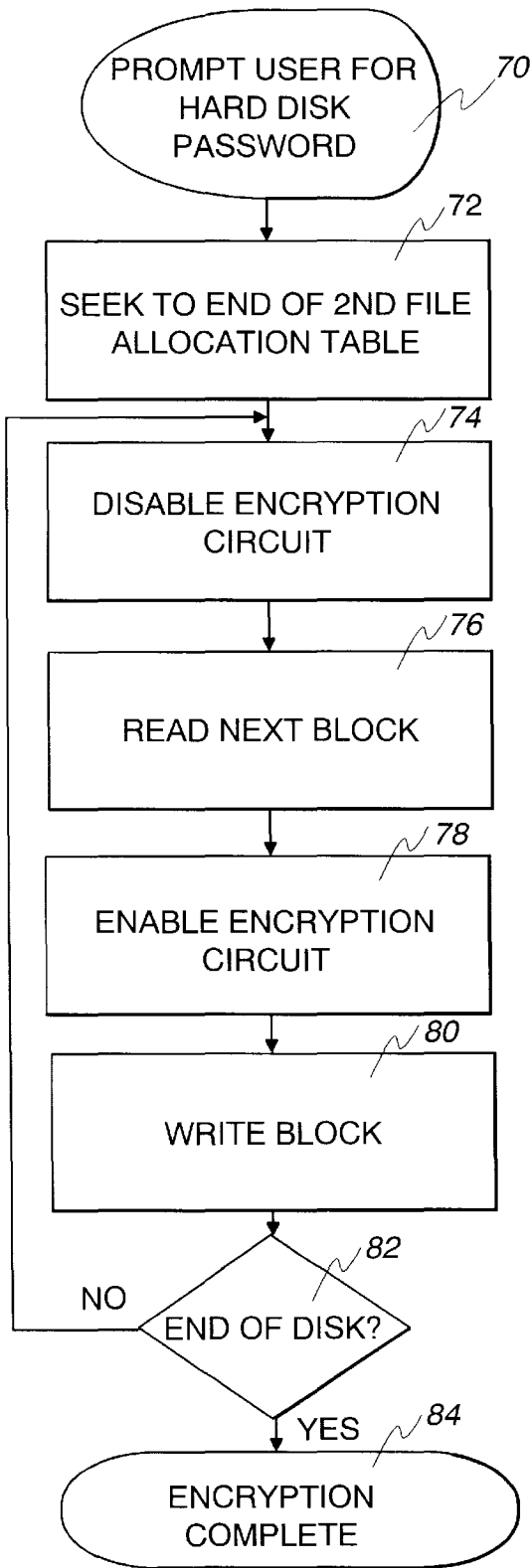


Fig. 6

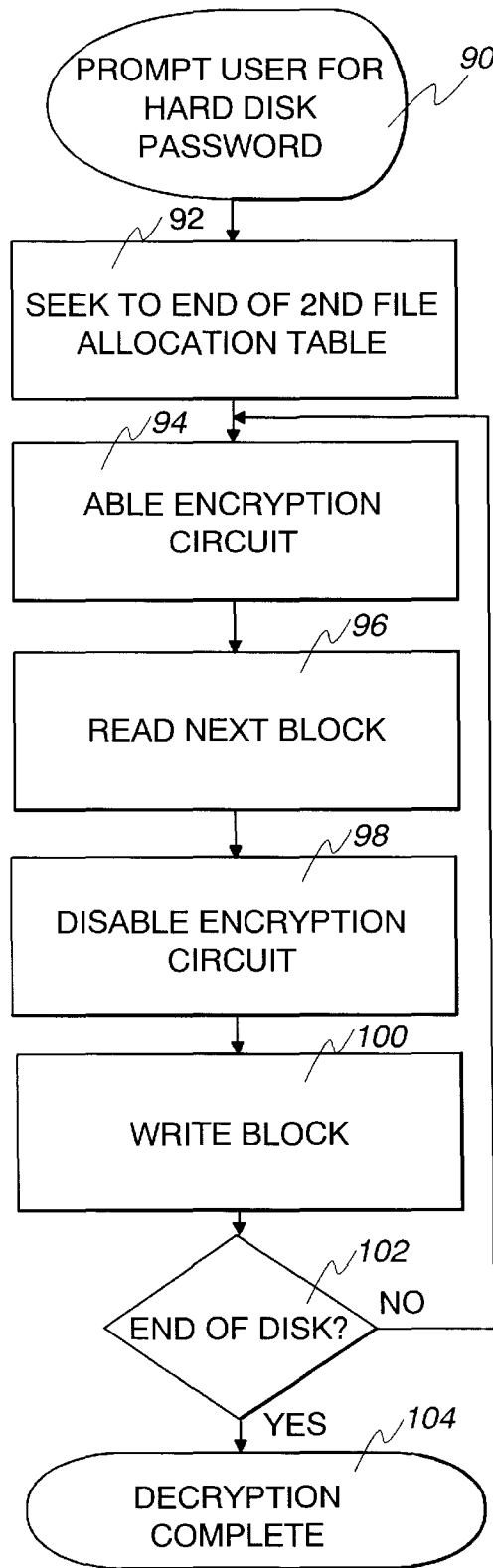


Fig. 7

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.