

EXHIBIT G

(12) **United States Patent**
Kim et al.

(10) **Patent No.:** **US 7,073,054 B2**
 (45) **Date of Patent:** **Jul. 4, 2006**

(54) **COMPUTER SYSTEM AND METHOD FOR BOOTING UP THE SAME**

(75) Inventors: **In-soo Kim**, Seoul (KR); **Kyung-young Kim**, Suwon (KR)

(73) Assignee: **Samsung Electronics Co., Ltd.**, Suwon-Si (KR)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 373 days.

(21) Appl. No.: **10/219,276**

(22) Filed: **Aug. 16, 2002**

(65) **Prior Publication Data**
 US 2003/0126427 A1 Jul. 3, 2003

(30) **Foreign Application Priority Data**
 Jan. 3, 2002 (KR) 2002-273

(51) **Int. Cl.**
G06F 15/177 (2006.01)

(52) **U.S. Cl.** 713/2; 713/1; 713/100; 713/191; 711/113

(58) **Field of Classification Search** 713/1, 713/2, 100, 191; 711/113
 See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS

| | | | | |
|-----------|-----|---------|------------------------|-------|
| 5,307,497 | A * | 4/1994 | Feigenbaum et al. | 713/1 |
| 5,581,785 | A * | 12/1996 | Nakamura et al. | 710/8 |
| 5,860,083 | A * | 1/1999 | Sukegawa 711/103 | |
| 5,907,713 | A | 5/1999 | Chen et al. | |
| 6,073,232 | A | 6/2000 | Krocker et al. | |
| 6,195,217 | B1 | 2/2001 | Park | |
| 6,226,740 | B1 | 5/2001 | Iga | |

| | | | | |
|--------------|------|---------|---------------------|-----------|
| 6,304,405 | B1 * | 10/2001 | Asano et al. | 360/73.03 |
| 6,539,456 | B1 * | 3/2003 | Stewart | 711/113 |
| 6,721,885 | B1 * | 4/2004 | Freeman et al. | 713/2 |
| 6,795,915 | B1 * | 9/2004 | Wang | 713/2 |
| 6,892,297 | B1 * | 5/2005 | Aguilar et al. | 713/2 |
| 2004/0003223 | A1 | 1/2004 | Fortin et al. | |
| 2004/0064647 | A1 | 4/2004 | DeWhitt et al. | |

FOREIGN PATENT DOCUMENTS

| | | |
|----|-------------|---------|
| JP | 6-314177 | 11/1994 |
| JP | 07-044325 | 2/1995 |
| JP | 8-137622 | 5/1996 |
| JP | 9-297659 | 11/1997 |
| JP | 09-297659 | 11/1997 |
| JP | 2000-173152 | 6/2000 |
| KR | 0174711 | 11/1998 |
| KR | 1999-607779 | 7/1999 |
| KR | 2001-53904 | 7/2001 |

OTHER PUBLICATIONS

Copy of an office action issued by the Japanese Patent Office on April 5, 2005 for a corresponding application.

* cited by examiner

Primary Examiner—Thomas Lee
Assistant Examiner—Vincent Tran
 (74) *Attorney, Agent, or Firm*—Staas & Halsey LLP

(57) **ABSTRACT**

A computer system with a main memory is equipped with an HDD that has a disk and a driving motor driving the disk, a non-volatile storage unit provided in the HDD storing therein a booting program of an operating system, and a control unit reading out the booting program stored in the non-volatile storage unit and loading the booting program onto the main memory before the driving motor reaches a normal speed as power is supplied to the computer system. With this configuration, there is provided a computer system capable of reducing the booting time of the HDD.

19 Claims, 3 Drawing Sheets

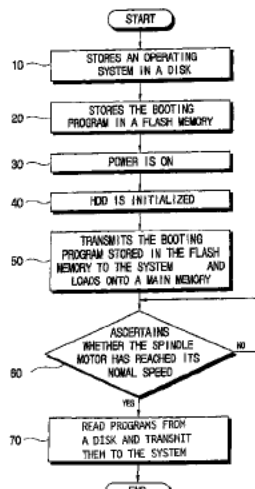


FIG. 1

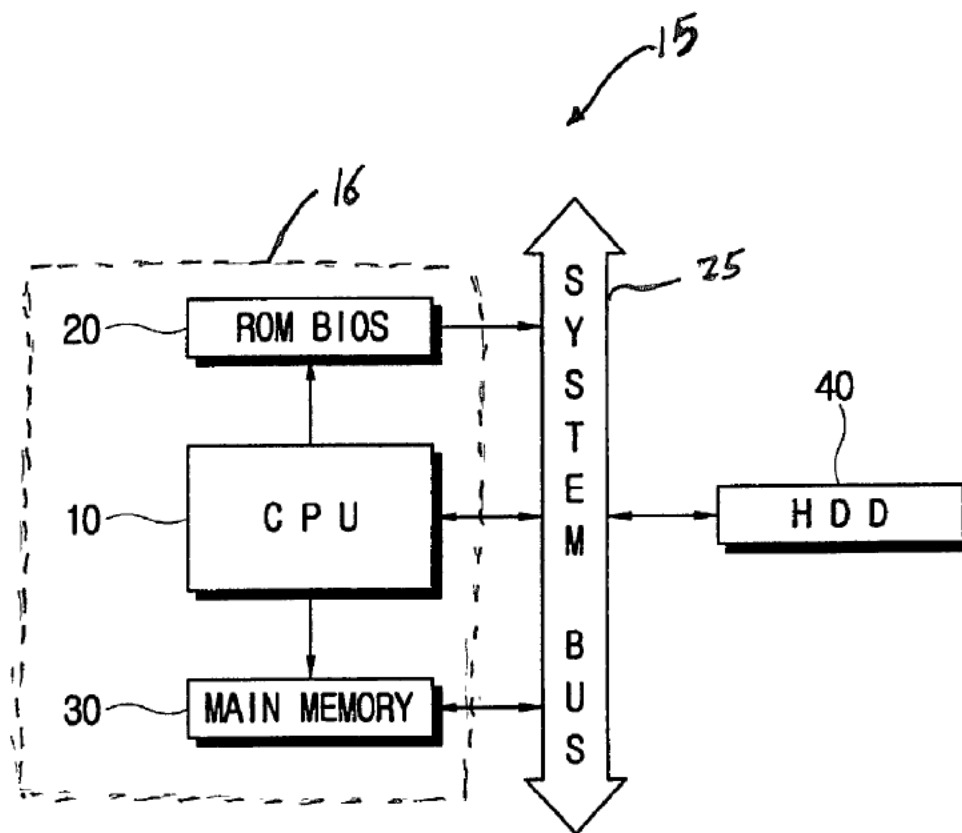


FIG. 2

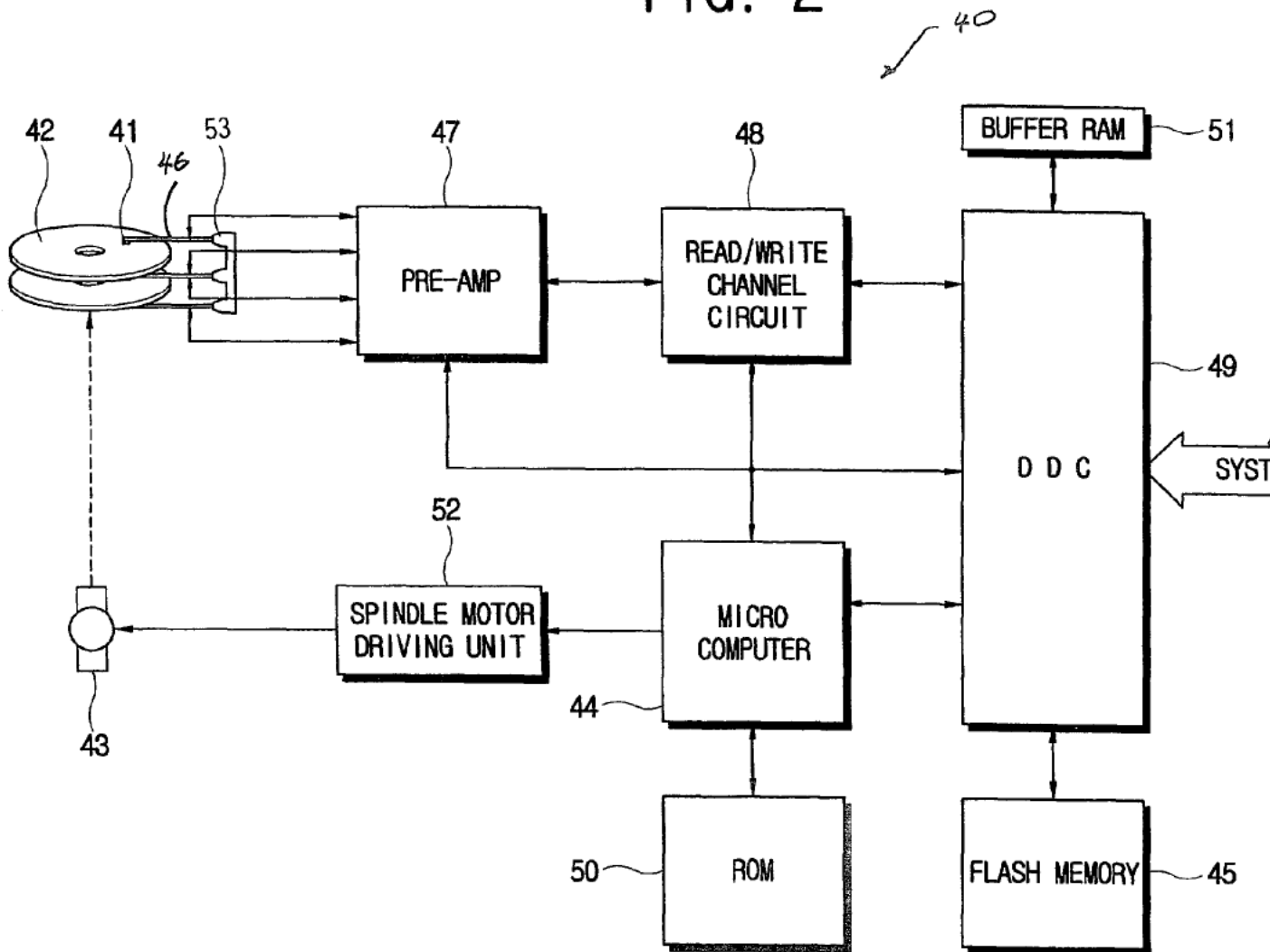
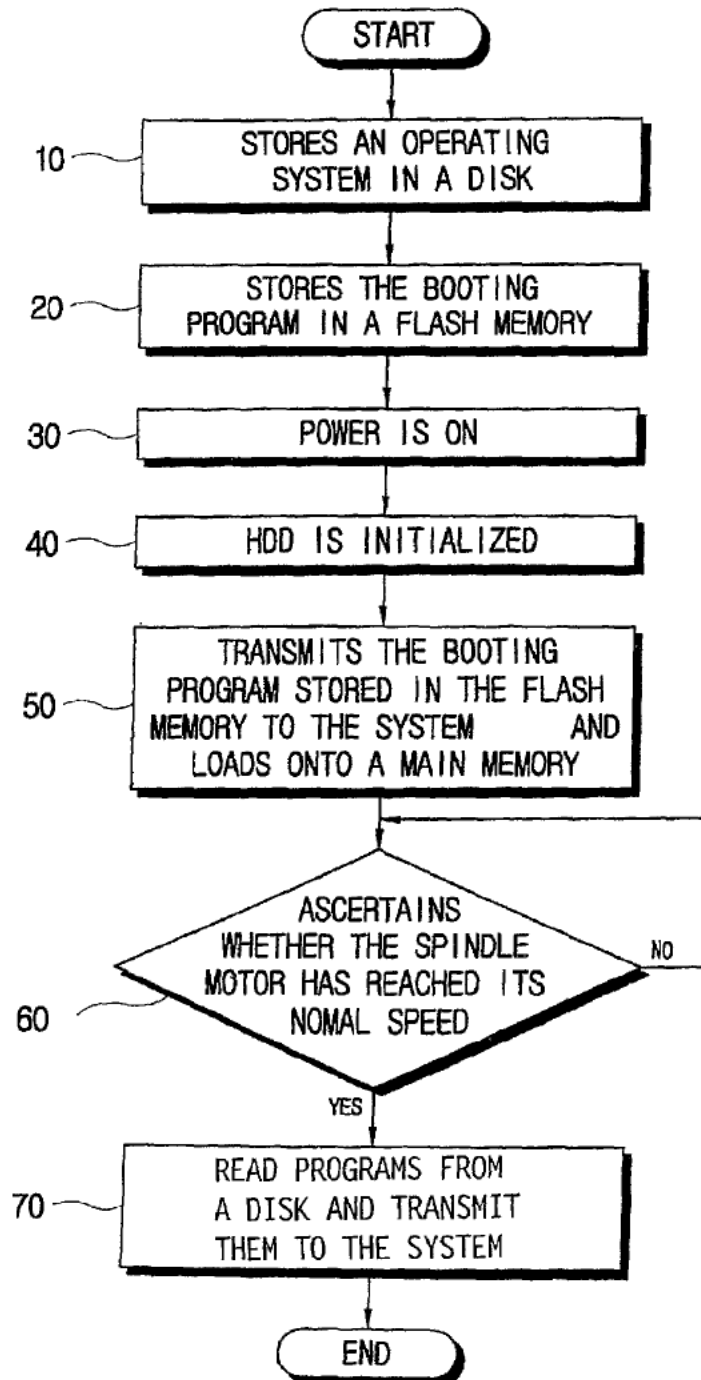


FIG. 3



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.