

# 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.

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

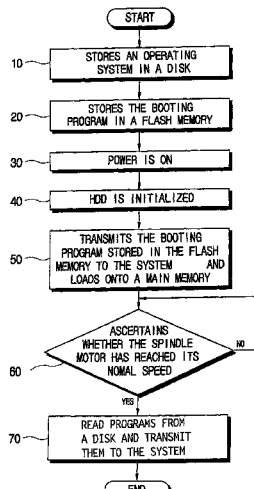


FIG. 1

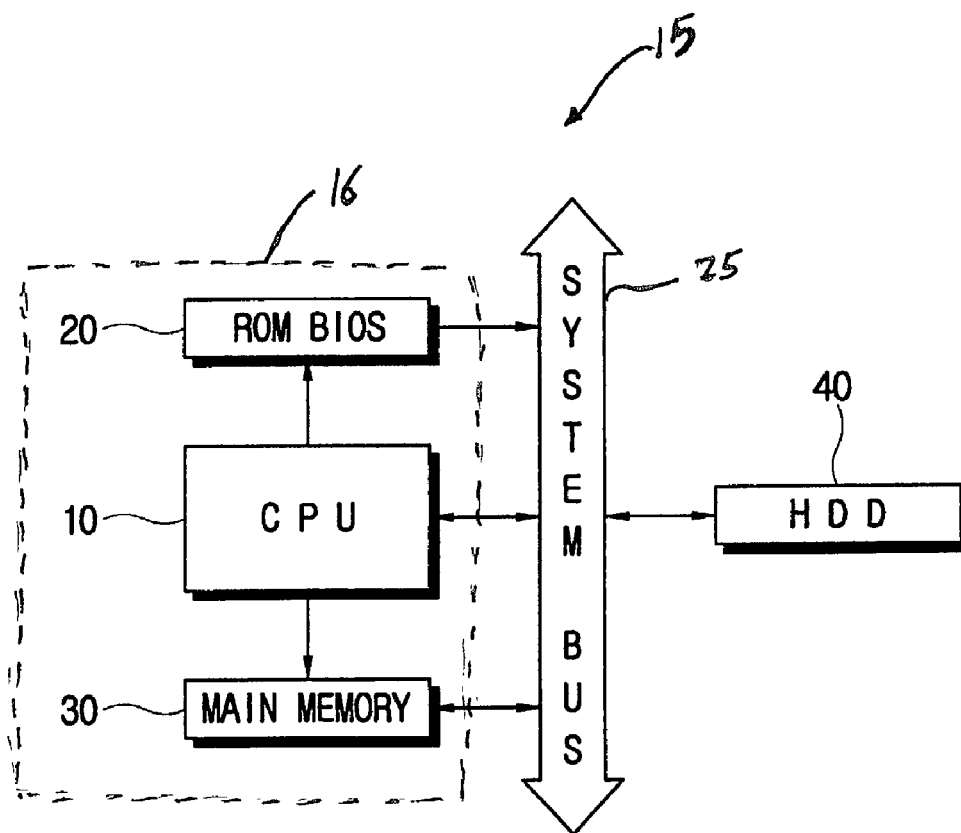


FIG. 2

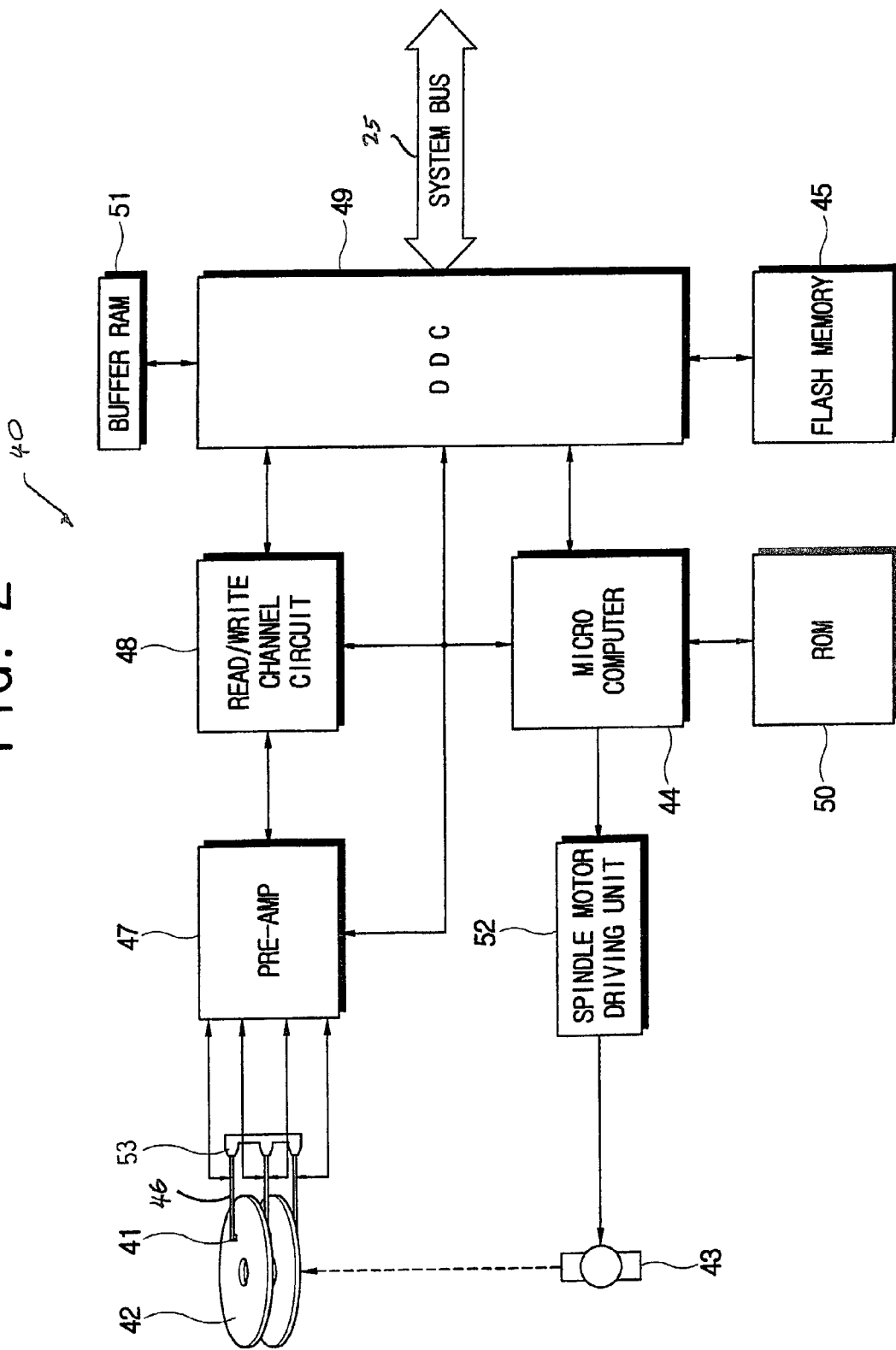
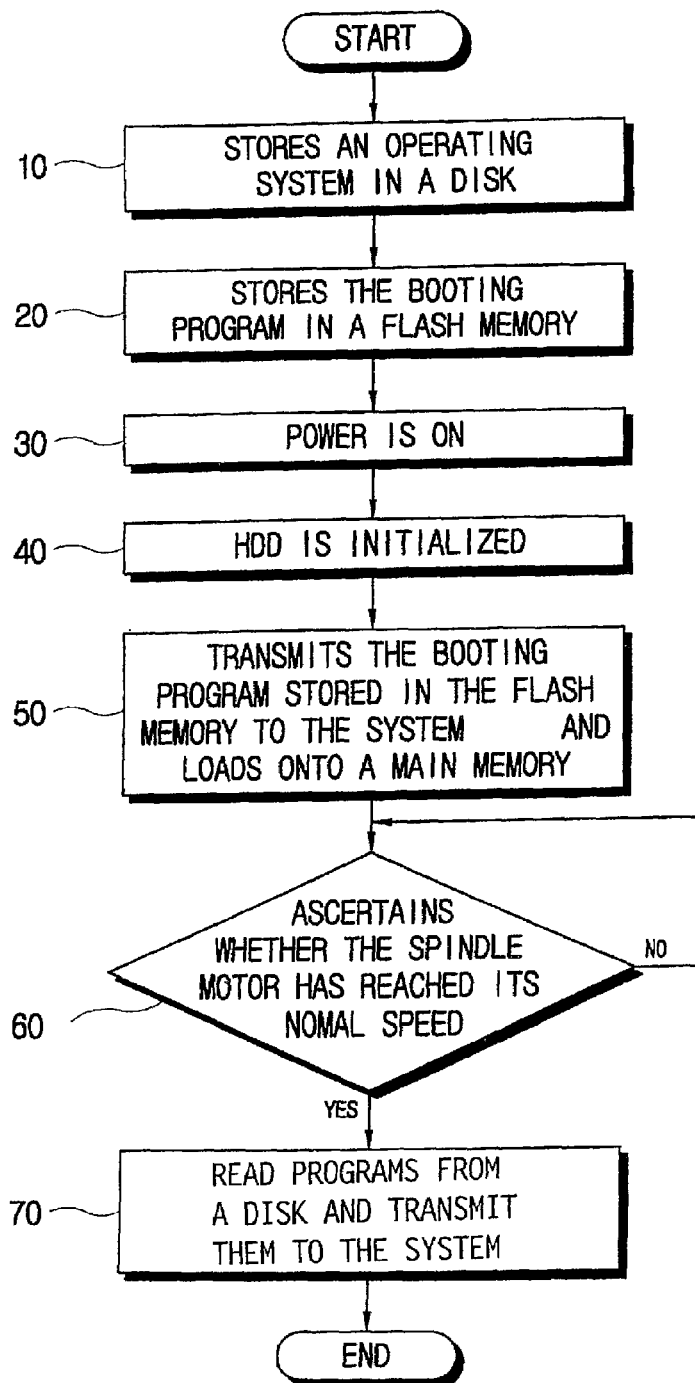


FIG. 3



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