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**Servo Information Write Method, Servo Control Method,
Data Storage Device, and Program**

Abstract

A data storage device has a read head (R) that detects a servo pattern is written on a magnetic disk by a write head (W). Position control of the write head (W) is exercised in accordance with the detected servo pattern. Further, the read head (R) detects a propagation pattern that is written on the magnetic disk by the write head (W). The position of the write head (W) is corrected in accordance with the detected propagation pattern.

FIG. 2