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MAGNETIC DISK DRIVE APPARATUS HAVING A SELF-SERVO WRITING
SYSTEM AND METHOD FOR WRITING SERVO PATTERN THEREIN
ABSTRACT

Magnetic disk drive apparatus and methods for writing servo data in the magnetic disk drive apparatus that can perform a self-servo data writing operation without using a special servo writer instrument in order to increase an accuracy of the servo data writing and to reduce a manufacturing cost of the disk.

The magnetic disk apparatus and methods for writing servo data in the magnetic disk drive apparatus detects a relative position between a magnetic head and a writing surface and performs a feedback the detected relative position for determining the servo data writing position. Based on reference servo pattern that are preliminarily recorded on a portion of at least one surface of the disk, two pair of head elements arranged facing to respective surfaces of the disk alternately performs postscript operation of servo patterns with reducing a relative position error between the head and the disk in order to increase writing accuracy of servo pattern writing operation.

Figure 1.