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## HEAD LOADING/UNLOADING CONTROL SYSTEM FOR USE IN A DISK DRIVE APPARATUS

### ABSTRACT



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Magnetic disk drive apparatus and methods for controlling head loading/unloading operations in the magnetic disk drive apparatus that can perform a head retracting operation by using a reserve power source in order to retract head elements to a predetermined rest position even when a primary power source has shut down during the operation of the apparatus.

In order to perform certainly power off unloading of head elements at a shutdown time of the primary power source, the magnetic disk apparatus and methods for controlling head loading/unloading operations judges, prior to start the head loading control, whether a sufficient electric power is secured in a reserve system in order to retract the head elements to a predetermined rest position if a shutdown of the power source occurs.

Figure 1