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(54) Title: DUAL LATCH APPARATUS FOR RESTRAINING A DIRECT ACCESS STORAGE DEVICE ACTUATOR

(57) Abstract

A dual actuator latch apparatus disposed in a direct access storage device for restraining a rotatably mounted actuator in a parked orientation in the presence of relatively low, moderate, and high levels of externally induced actuator acceleration is disclosed. An inertial latch assembly is preferably employed to prevent unrestrained actuator rotation from the parked orientation that would otherwise result from elevated levels of externally induced actuator acceleration. A separate magnetic latch assembly, or, alternatively, an electromagnetic latch assembly, is employed in tandem with the inertial latch assembly to prevent unrestrained actuator rotation and movement from the parked orientation in the presence of relatively low and moderate levels of externally induced actuator acceleration. The novel dual actuator latch apparatus is amenable for installation in standard form factor DASDs, and is particularly well-suited for incorporation in small and very small form factor DASDs.

