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(54) Title: DISK CARTRIDGE HUB LOCKING MECHANISM

(57) Abstract

The hub assembly (16) of a disk cartridge (10) has an annular groove (18) formed in its bottom surface. The outer periphery of the annular groove undercuts the bottom surface of the hub assembly to form an annular lip (18b) around the outer periphery of the groove. A data storage device designed to receive the disk cartridge has a spindle motor (110) with at least one latch member (120) mounted on the upper portion of the motor via a flexure (122). The latch member on the spindle motor enters the annular groove on the hub assembly of the disk cartridge when the disk cartridge is inserted into the data storage device. When the spindle motor spins-up to its operating speed, the latch member moves radially outward on its flexure and engages the annular lip in the hub assembly, thereby preventing separation of the hub assembly from the spindle motor during rotation.

