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United States Patent [19]
McAllister et al.

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[45] **Date of Patent:** **May 11, 1999**

[54] **TAPE CARTRIDGE REEL LOCK**
[75] Inventors: **Jeffrey S. McAllister; Thomas W. von Alten**, both of Boise, Id.
[73] Assignee: **Hewlett-Packard Company**, Palo Alto, Calif.

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[21] Appl. No.: **09/033,352**

Primary Examiner—John P. Darling

[22] Filed: **Mar. 2, 1998**

[57] **ABSTRACT**

[51] **Int. Cl.**⁶ **G11B 23/087**

[52] **U.S. Cl.** **242/348; 242/338.1; 242/343; 242/345.2**

[58] **Field of Search** **242/338, 338.1, 242/343, 343.1, 343.2, 348; 360/132, 134**

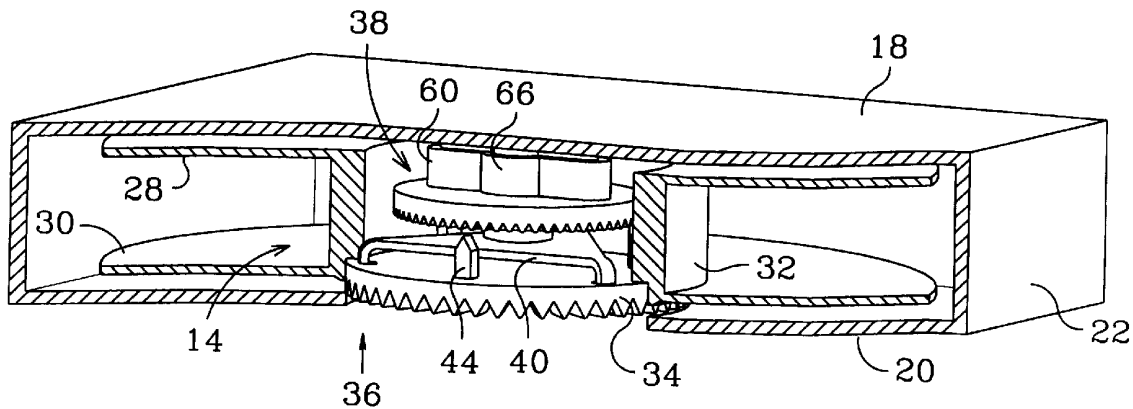
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A tape cartridge and reel lock that allows the reel lock to be released away from the center of rotation of the tape reel while keeping the frictional interface between the moving and fixed parts at the center of rotation of the reel. The tape cartridge includes a housing, a tape reel rotatably disposed in the housing, a tape drive interface on the reel, a rotatably fixed locking member operatively coupled to the reel and a release mechanism engagable by the tape drive at the tape drive interface on the reel. The release mechanism is movable between a first position in which the release mechanism is not engaged by the tape drive and the locking member is locked and a second position in which the tape drive engages the release mechanism and the locking member is unlocked.

17 Claims, 7 Drawing Sheets



SONY Exhibit 1005
SONY v. FUJI

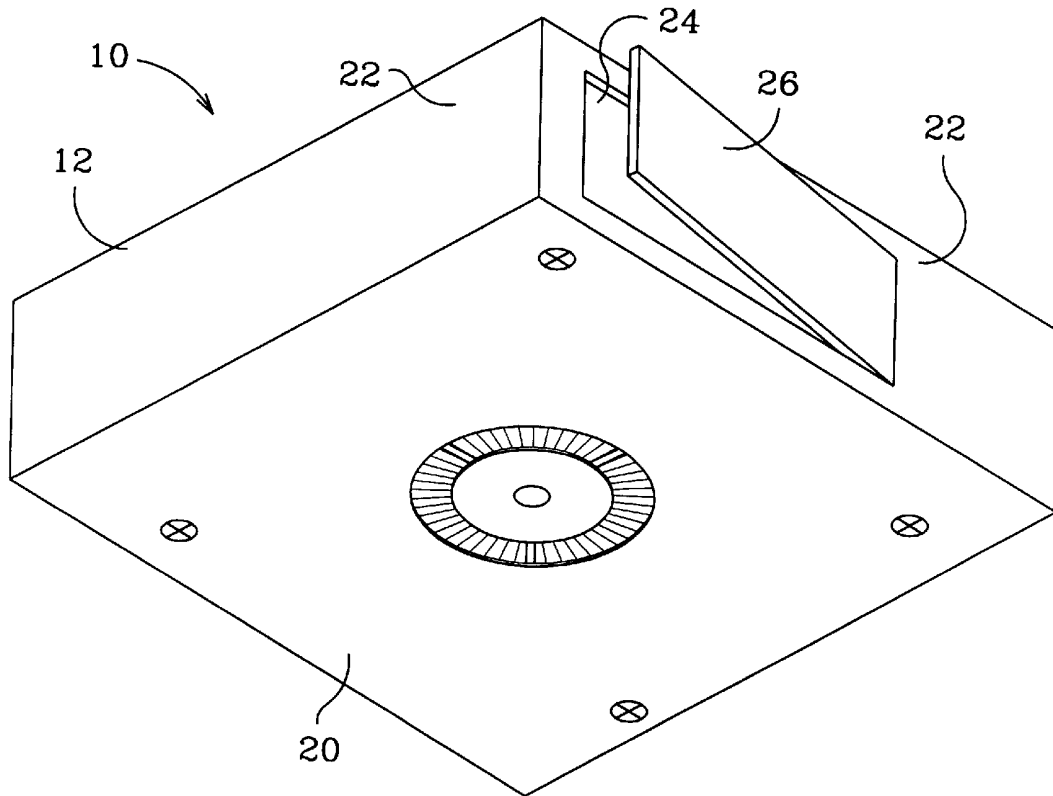


FIG. 1

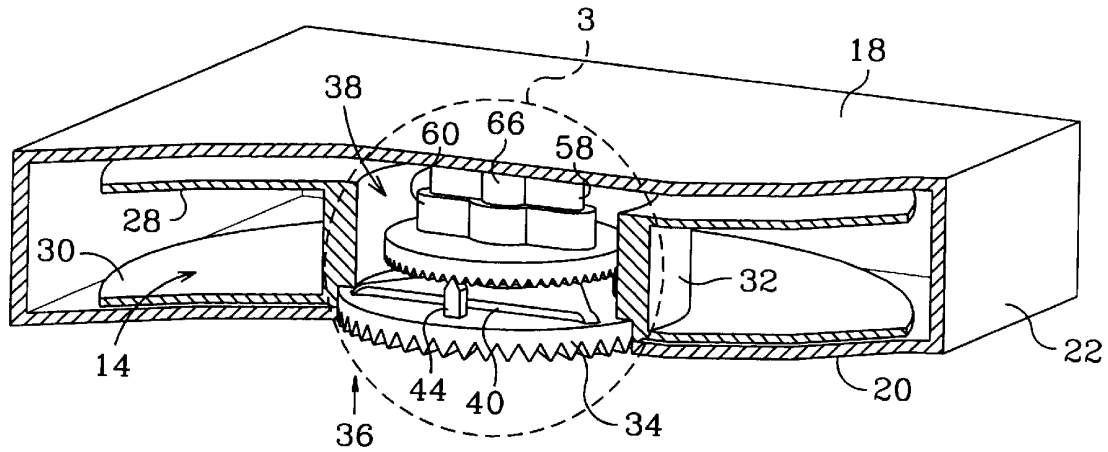


FIG. 2A

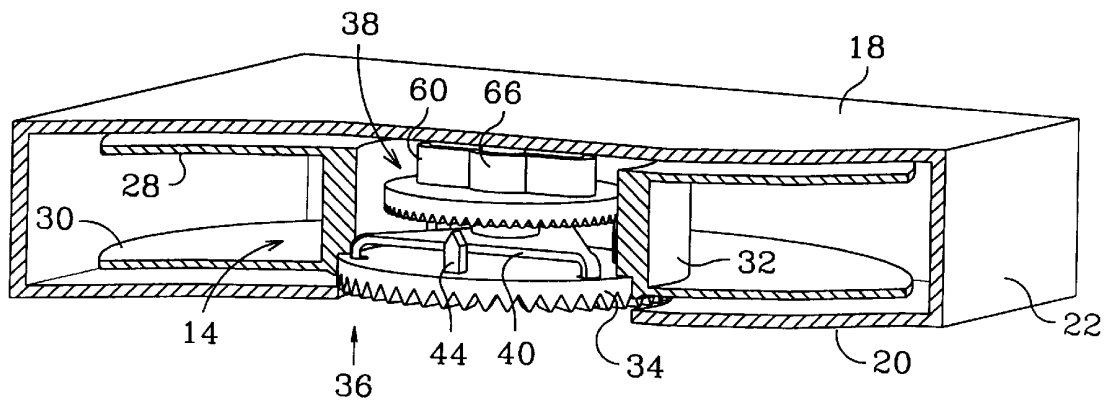


FIG. 2B

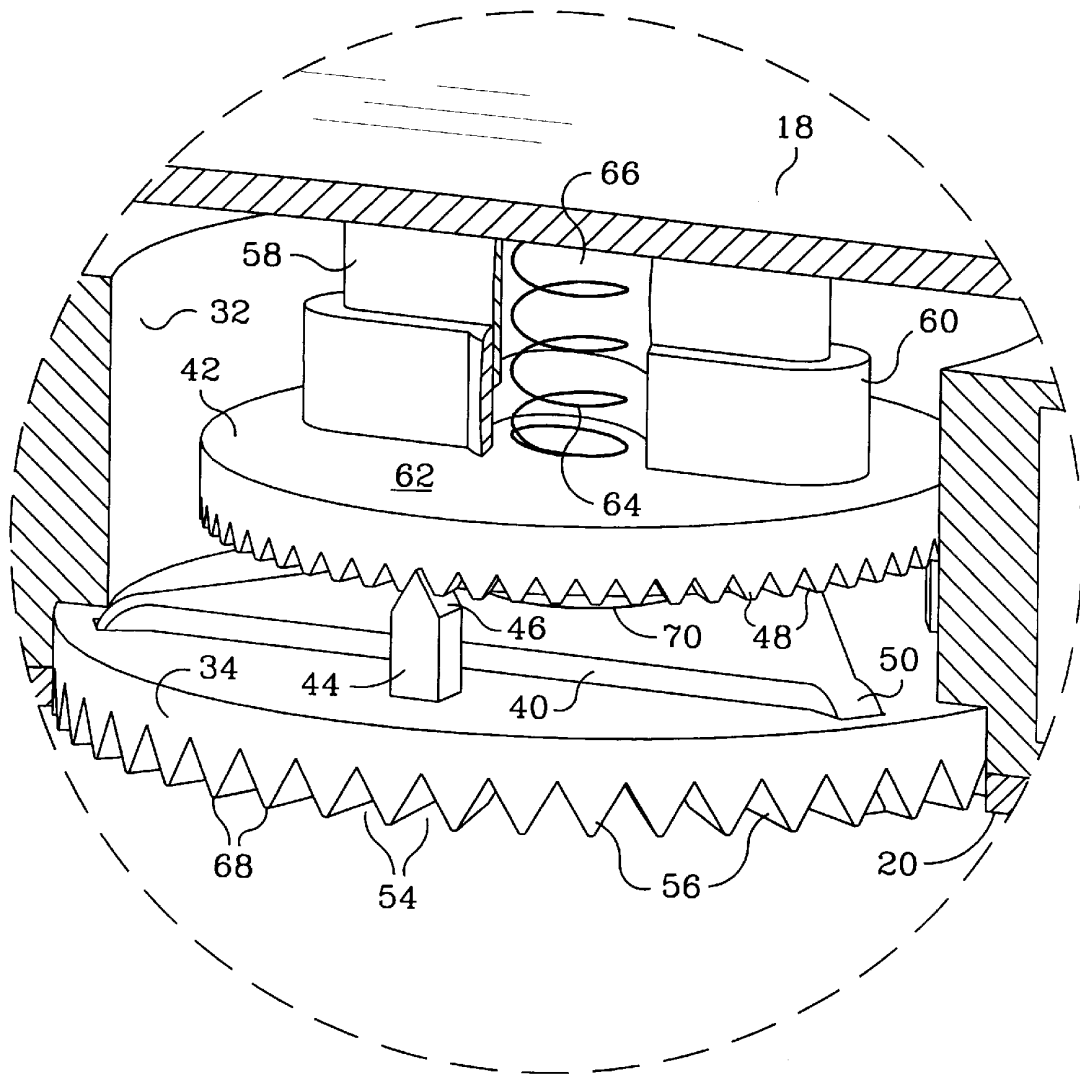


FIG. 3

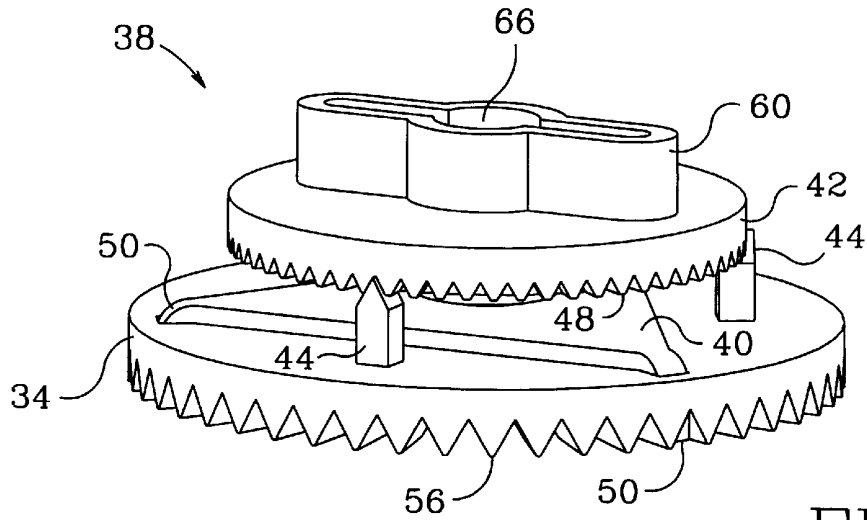


FIG. 4A

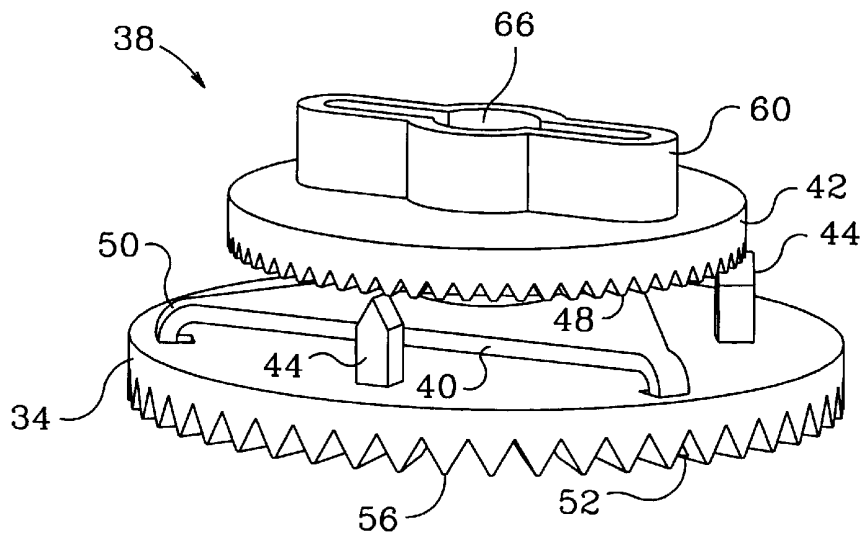


FIG. 4B

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