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Shima et al.

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(54) **TAPE CARTRIDGE WITH MATCHED
BRAKE LOCK AND BRAKE RELEASE
PLATE**

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* cited by examiner

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(21) Appl. No.: **09/562,341**

(57) **ABSTRACT**

(22) Filed: **May 1, 2000**

(30) **Foreign Application Priority Data**

May 21, 1999	(JP)	11-141538
May 25, 1999	(JP)	11-144615

(51) **Int. Cl.**⁷ **G11B 23/107**

(52) **U.S. Cl.** **360/132**

(58) **Field of Search** 360/132; 242/343,
242/338.1; 188/218; 369/268; G11B 23/07

In a tape cartridge of the single-reel type having a hub on which a length of tape is wound, a brake mechanism contained in the hub is movable up and down to apply and release the brake on the tape reel. The brake mechanism and a brake lock release member disposed between it and the hub remain in sliding engagement after the release of the brake, and the resulting friction hampers smooth turning of the hub. Moreover, after the brake lock has been released, the center of the tape reel can be off the center of a rotating shaft of a recorder.

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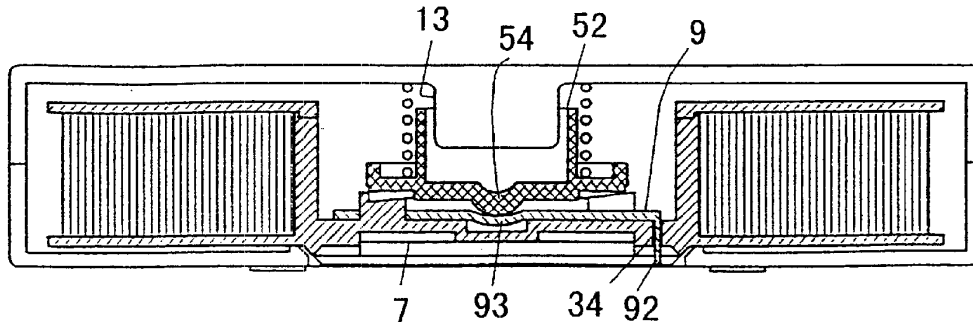
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The hub of the tape reel has holes formed in its bottom wall for engagement with the brake release plate, the brake release plate is mounted in the hub with legs fitted in the holes of the latter, the brake lock rests on the brake release plate, the brake lock is formed with a dent (or lug) with a spherical end and the brake release plate is formed with a corresponding lug (or dent) with a spherical end on its upper surface. A highly slippery sheet member is interposed between the contacting parts of the brake lock and the brake release plate.

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3 Claims, 11 Drawing Sheets



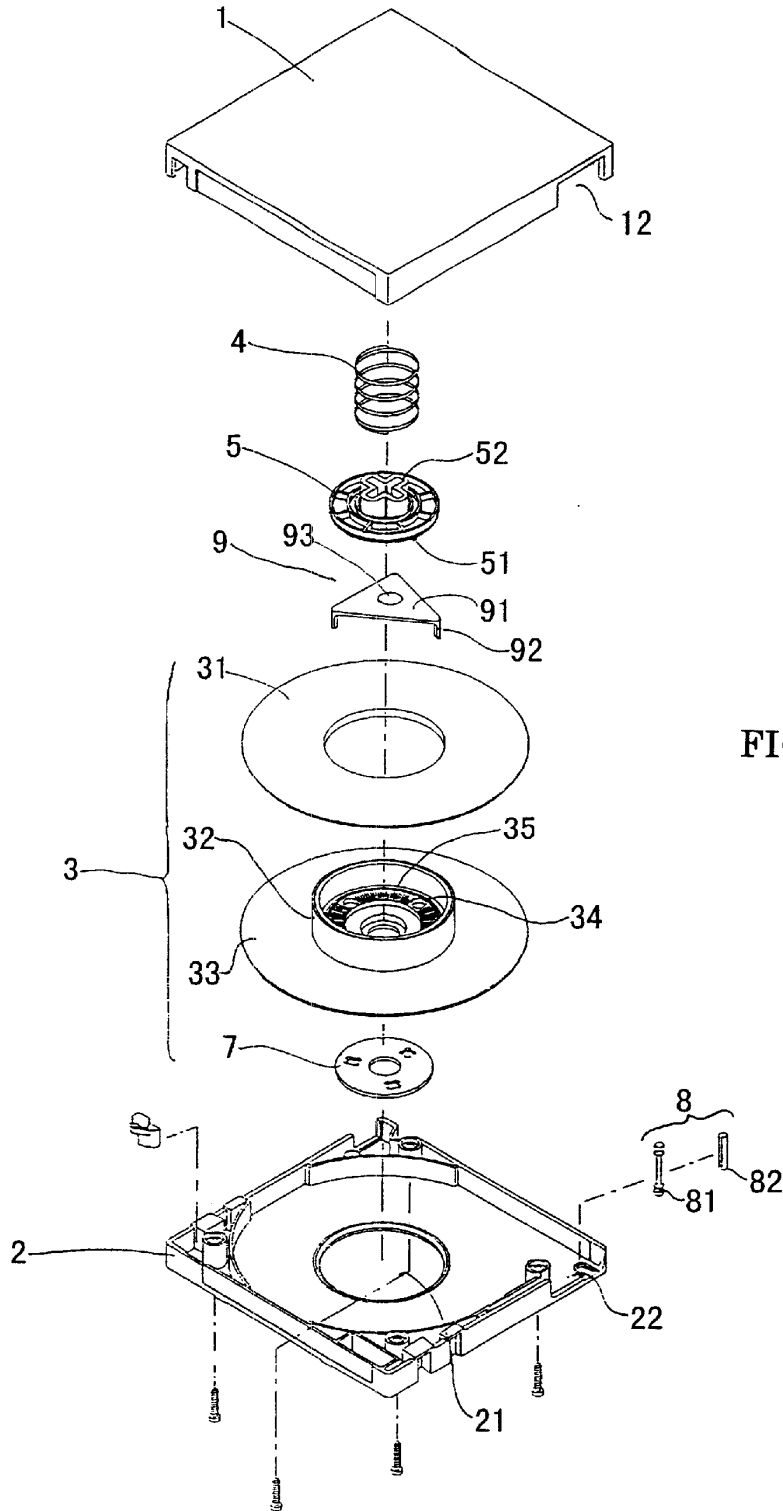


FIG.1

FIG.2(a)

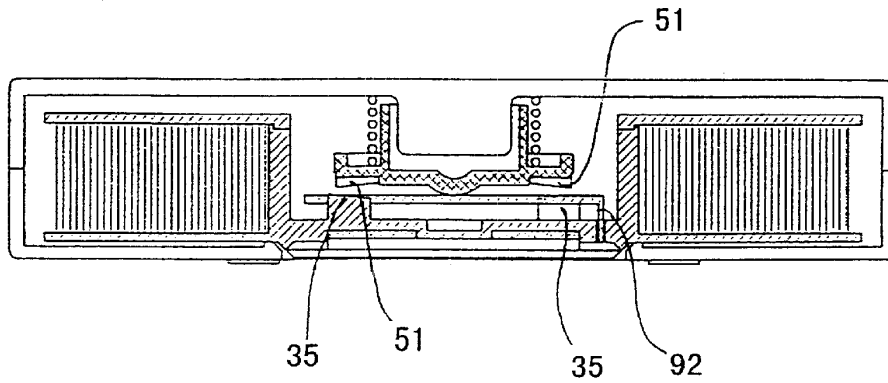
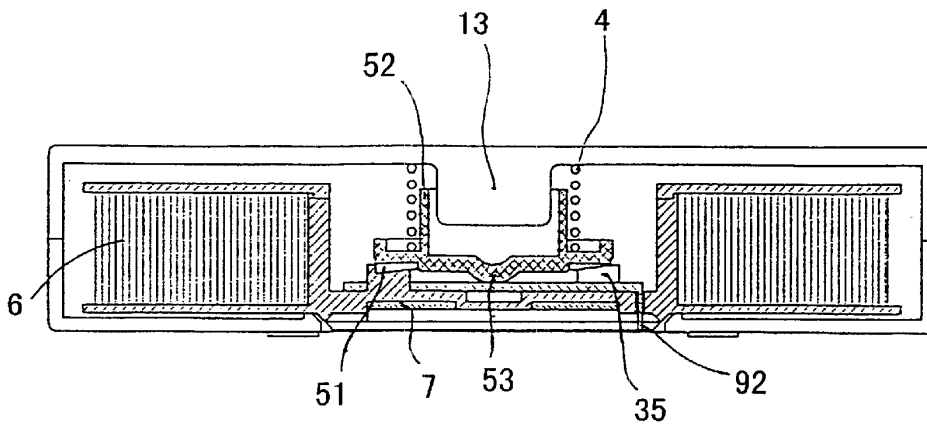


FIG.2(b)

FIG.3(a)

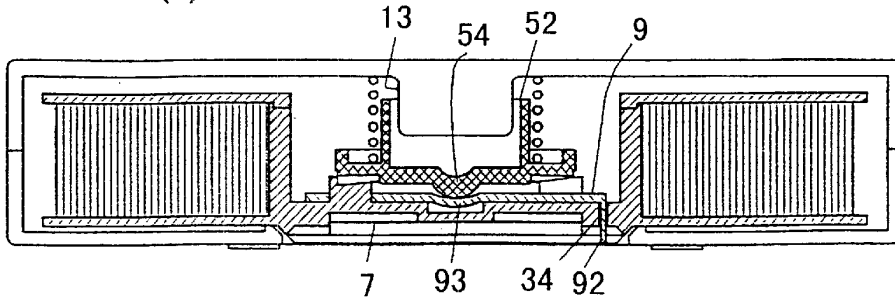


FIG.3(b)

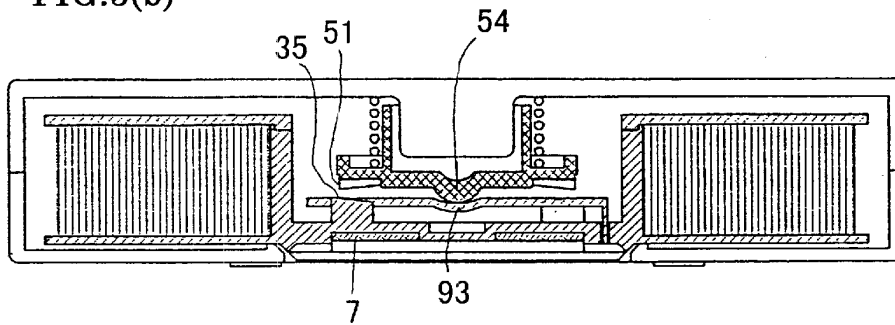


FIG.3(c)

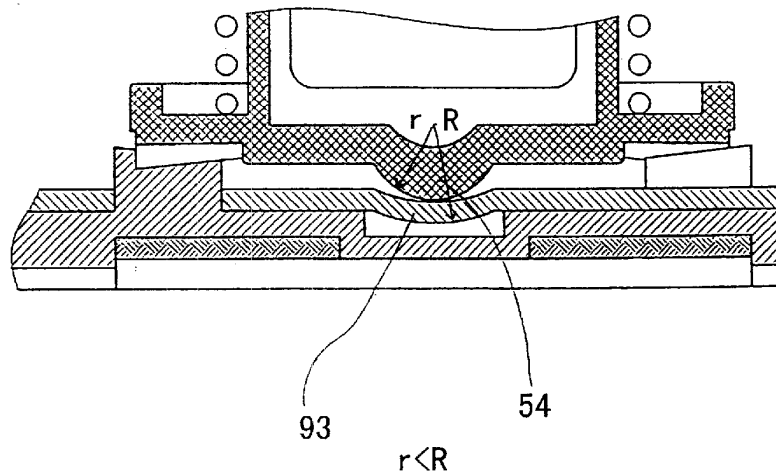


FIG.4(a)

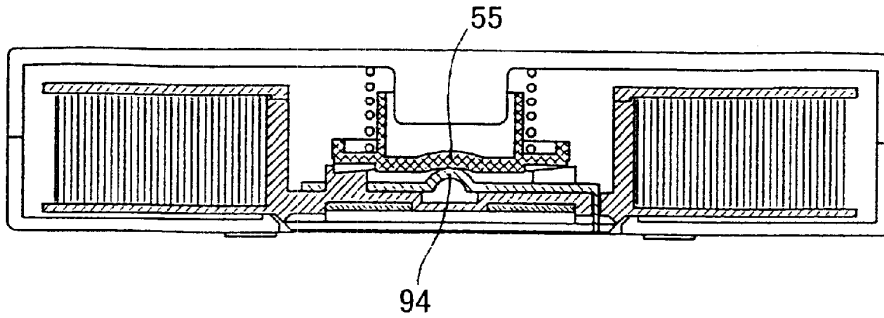


FIG.4(b)

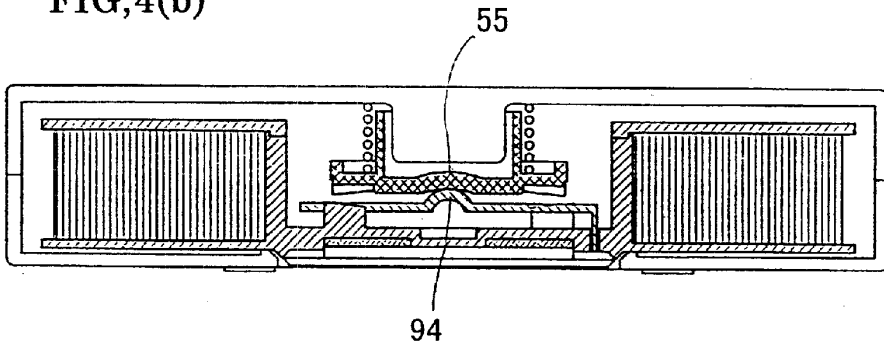
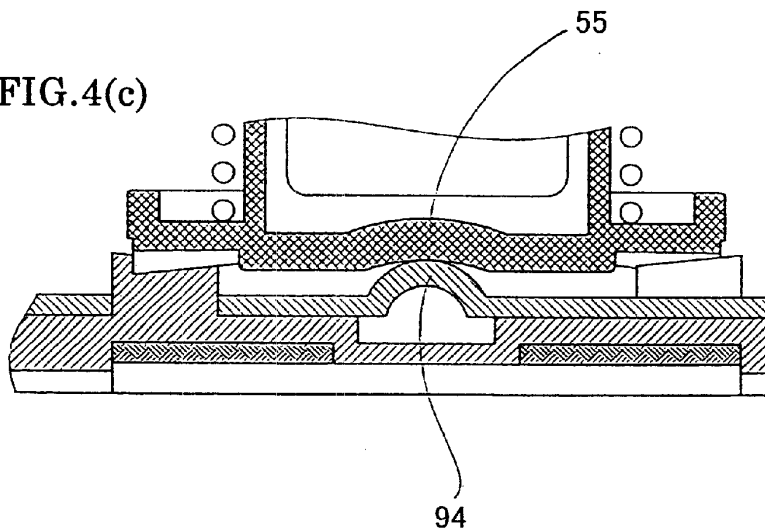


FIG.4(c)



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