March 5, 1929. R. P. HAYDEN ET AL 1,704,474

SPOOL OF TAPE AND PROTECTOR THEREFOR

Filed Aug. 22, 1927

Fig. 1.

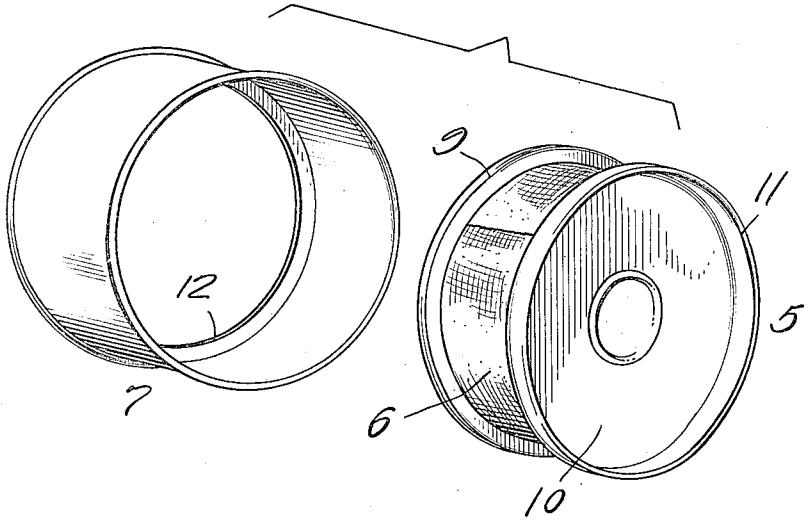



Fig. 2.

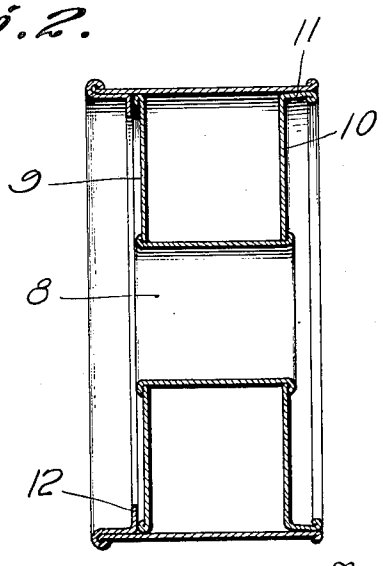
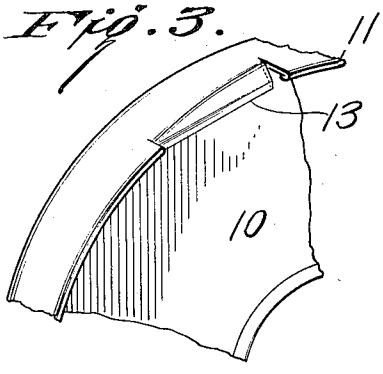



Fig. 3.




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# UNITED STATES PATENT OFFICE.

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## SPOOL OF TAPE AND PROTECTOR THEREFOR.

Application filed August 22, 1927. Serial No. 214,690.

The invention relates generally to devices or spools for tape, ribbon and the like, and to their holding elements, and more particularly to spools of surgical adhesive tape or plaster.

Objects of the invention are to simplify and lessen the cost of production and to enhance the efficiency of such devices to the end that the assembly, the spool and its complemental holder, will preserve the original aseptic condition of the tape, and so that the spool may be withdrawn and replaced with facility and dispatch without diminishing the protecting properties of the assembly.

The nature of the invention consists in the provision of a spool embodying an axial core or center and its complemental end flanges or heads whereof one is a simple disk and whereof the other is formed with an endwise directed flange or rim, and a slip on holder embodying a cylindrical shell or casing open at both ends and provided internally with an annular shoulder which constitutes a stop or abutment for the disk head of the spool and also cooperates with said head to exclude dust and other sources of contamination from the adhesive tape or other commodity wound upon the spool, the other head performing a like function through the medium of a friction fit between its rim and the inner wall of the holder, it being understood that slight pressure of the thumb upon the disk head will be sufficient to overcome the friction grip and result in the ejection of the spool.

The invention is exemplified in the accompanying drawing wherein

Figure 1 is a perspective view of the spool and its holder in detached relation.

Fig. 2 is a cross section of the assembly.

Fig. 3 is a detail, showing the rim head formed with a cutting edge.

Referring to the drawing, 5 represents a spool wound with surgical adhesive tape 6, and 7 represents its complemental holder. The spool embodies an axial core or center 8 formed or provided at its ends with peripheral flanges or heads 9 and 10, the latter having an endwise directed rim or collar 11.

The mating element or holder is a cylindrical shell whose inside diameter is such as to provide a snug or friction fit with relation to the rim element of the spool. The shell is formed or provided with an annular shoulder or seat 12, which has a dual function, to wit: to constitute a stop or abutment for the proximate or disk head of the spool, and in conjunction with the same to seal that end of the spool, the other end being sealed by the friction fit of the rim or collar 11. In short, when the parts are assembled the adhesive tape or other commodity on the spool is completely sealed by the heads or end flanges acting in concert with the cylindrical shell or casing.

Evidently slight pressure of the thumb against the disk head of the spool will overcome the friction fit of the rim element and permit the withdrawal of the spool.

Fig. 3 illustrates an added detail wherein the rim or collar element of the spool is notched and formed with a knife edge 13 to provide self-contained means for severing the tape.

Having described the invention, what is claimed as new is—

1. A spool and protector assembly, comprising a spool having fixed heads, and a tubular shell adapted for telescopic and friction fit with relation to the heads, and open at its ends to expose the spool to manual pressure to separate it from the shell.

2. A spool having fixed heads, combined with a separable ring of length sufficient to overhang the heads, one end of the ring having a limiting stop or collar to arrest the passage of the spool, and one of the heads having a flange to take a binding fit on the inner wall of the ring, the spool being otherwise free and exposed to endwise pressure to separate it from the ring.

In testimony whereof we affix our signatures.

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