

May 11, 1937.

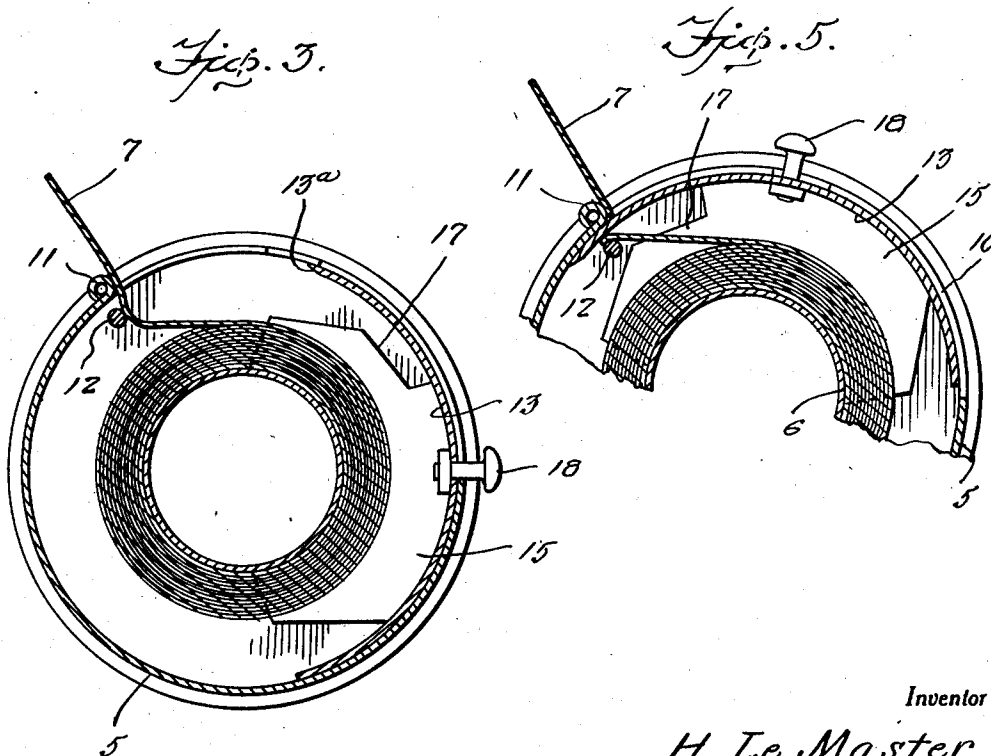
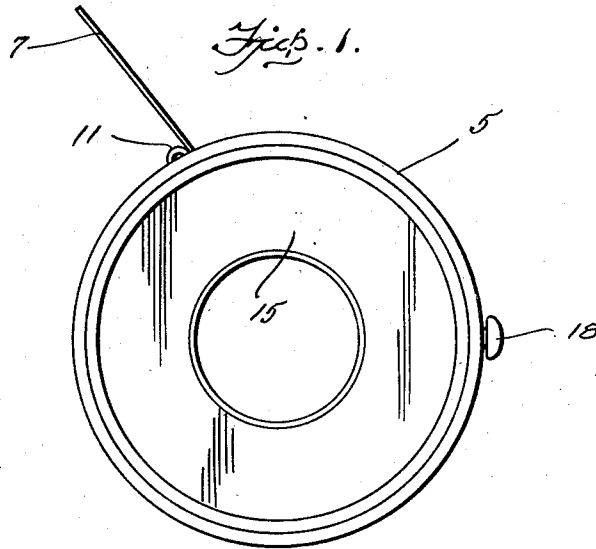
H. LEMASTER

2,080,052

ADHESIVE TAPE BOX

Filed Feb. 4, 1936

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

Fig. 2.

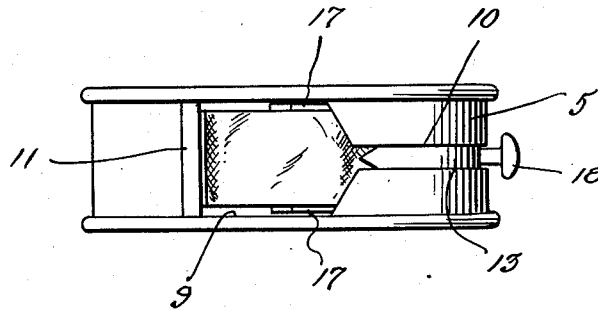


Fig. 4.

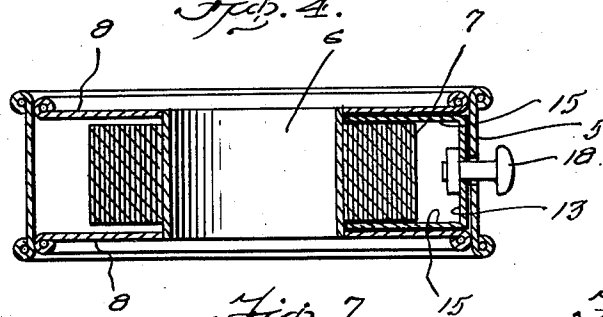


Fig. 7.

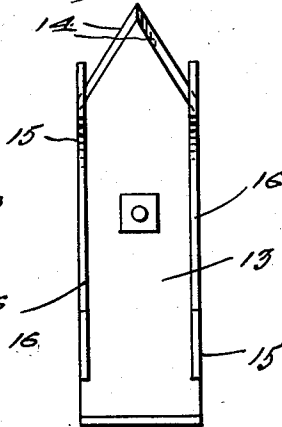


Fig. 8.

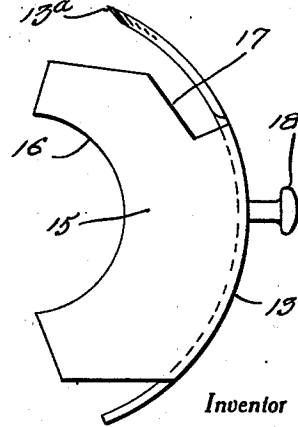
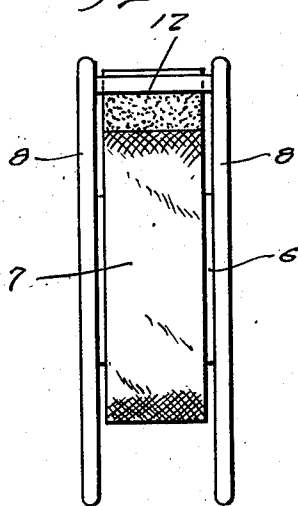


Fig. 6.



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UNITED STATES PATENT OFFICE

2,080,052

ADHESIVE TAPE BOX

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Application February 4, 1936, Serial No. 62,348

2 Claims. (Cl. 206—52)

This invention relates to a container or box for adhesive tape or the like, and more particularly to a combined container and cutter.

The invention together with its objects and advantages will be best understood from a study of the following description taken in connection with the accompanying drawings wherein:

Figure 1 is a side elevational view of the container embodying the features of the present invention.

Figure 2 is an edge elevational view thereof.

Figure 3 is a vertical sectional view through the container.

Figure 4 is a transverse sectional view thereof.

Figure 5 is a fragmentary detail sectional view illustrating the use of the cutter.

Figure 6 is an elevational view of the spool with the tape wound thereon.

Figure 7 is an elevational view of the cutter per se, and

Figure 8 is an elevational view of the cutter taken at right angles to Figure 7.

Referring to the drawings by reference numerals it will be seen that the container or box comprises a receptacle 5 in the form of an annulus or cylinder open at each end and formed in any suitable manner from metal or other suitable material. The container 5 is adapted to have fitted therein the drum or spool 6 upon which is wound the tape 7.

The cylinder 5 and drum 6 are constructed somewhat similar to like containers for adhesive tape now on the market, drum 6 having a hub to the opposite ends of which are secured in any suitable manner relatively large flanges or plates 8 which fit snugly within the container 5 and between which the tape 7 is wound on the hub 6.

However in accordance with the present invention the annulus or cylinder 5 has a portion thereof removed to provide in the peripheral wall thereof a relatively large opening 9 and a slot 10 extending from one end of the opening 9. At the end thereof opposite to the slot 10 the portion of the wall of the member 5 forming the end wall of the opening 9 is rolled to provide a guide bead 11 extending transversely of the member 5.

Also supported between and secured at its respective opposite ends to the walls or flanges 8 of the drum is a rod 12 which as best shown in Figures 3 and 5 is adapted to be positioned in proximity to the guide bead 11 for cooperation therewith during a cutting of the tape 7.

Further in accordance with the present inven-

tion there is provided a cutter in the form of an arcuate plate like member 13 formed at one end with a point 13a and diagonal cutting or knife edges at 14.

Formed integral with opposite side edges of the plate 13 are substantially segmental shaped plate members 15 which fit, as clearly shown in Figure 4 between the flanges 8 of the drum and these plates 15 have arcuate edges 16 to accommodate the hub portion of the drum as well as notch portions 17 to accommodate the rod 12 when the plate 13 is slid to the position shown in Figure 5 for effecting a cutting of the tape 7.

Plate 13 and associated parts are positioned within the container or box so as to move to and from a position across the opening 9 and to facilitate shifting of the plate 13 the latter is provided with, intermediate its ends, a headed stud 18 which operates in the slot 10 as clearly shown.

From the above it will be apparent, that in actual practice, the curved knife plate 13 is held in a position shown in Figure 2, that is to one side of the opening 9. This will allow the tape 7 to be threaded freely outwardly through the opening 9. When a sufficient length of the tape has been drawn through the opening 9 the operator engages stud 18 and slides the knife plate 13 to a position across the opening 9, namely from a position shown in Figure 3 to a position shown in Figure 5. As the pointed end 13a of the knife plate passes between the bar 12 and the beaded edge 11 of the opening 9 the point of the knife will penetrate a portion of the tape 7 and as the knife plate 13 continues to the position shown in Figure 5 the edges 14 will serve to sever the tape.

After the end of the tape has been severed knife plate 13 is retracted to the position shown in Figure 2.

As clearly shown in Figure 5, as the knife 13 severs the tape the end of the tape formed by the severing operation and pressed against the bar 12 will, by reason of the adhesively coated side of the tape being presented toward the bar 12 adhere to this bar 12 so that after each cutting operation an end portion of the tape will be so positioned that by passing the finger into the opening 9 said end of the tape may be gripped between the fourth finger and the thumb and pulled outwardly through the opening 9 when further use of the tape is desired.

Having thus described the invention, what is claimed as new is:

1. In a device of the class described, an annular casing provided with an opening in the

5 wall thereof, and a slot extending from one end
of the opening for a portion of the periphery of
the casing, a spool removably fitted within said
annular casing, a rolled strip upon the spool and
5 adapted to be threaded outwardly of the casing
through said opening, a curved knife plate ar-
ranged within said casing, a headed manipulat-
ing stud for said knife plate working in said slot,
said knife plate having at opposite side edges
10 integral flanges accommodated between the
flanges of the spool and provided with arcuate
edges accommodating the hub of the spool.
2. In a device of the class described, an an-
nular casing provided with an opening in the
15 wall thereof, and a slot extending from one end
of the opening for a portion of the periphery
of the casing, a spool removably fitted within said

annular casing, a rolled strip upon the spool and
adapted to be threaded outwardly of the casing
through said opening, a curved knife plate ar-
ranged within said casing, a headed manipulating
stud for said knife plate working in said slot, 5
said spool having side flanges, a bar extending
between and supported by said side flanges and
over which an end portion of the tape is trained
incidental to a threading of an end of the tape
10 through said opening, and said knife blade hav-
ing an end adapted to sever the tape and to force
an end portion of the tape formed by the sever-
ing operation against said bar whereby said end
portion of the tape will be caused to adhere
15 slightly to the bar.

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