

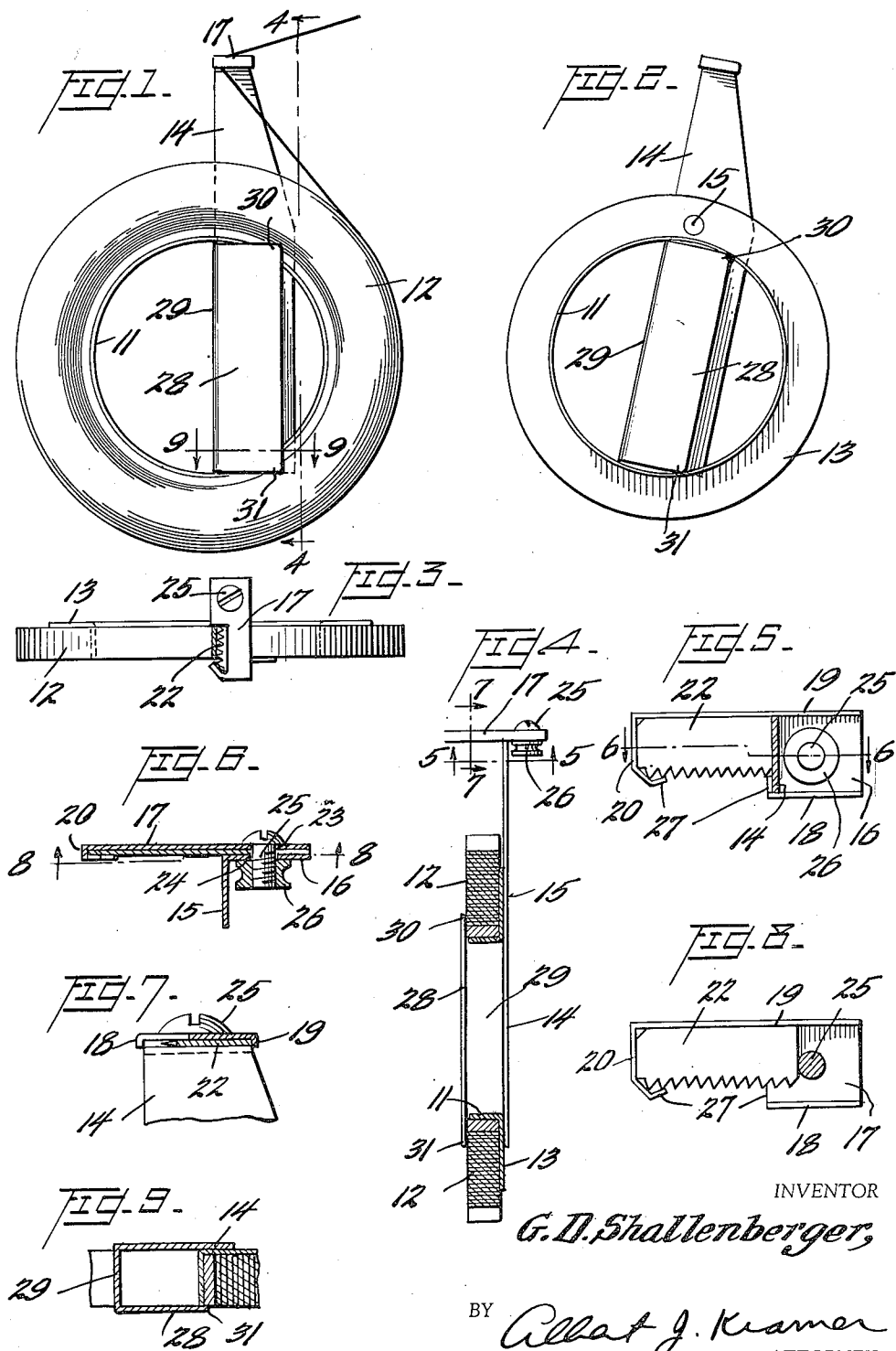
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TAPE SPOOL HOLDER

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TAPE SPOOL HOLDER

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This invention relates to taping devices and is more particularly concerned with means for holding a spool of tape or ribbon and for dispensing portions thereof for application to various articles.

One of the objects of this invention is the provision of a device of the type mentioned which can be firmly grasped in one hand while the tape or ribbon is unwound and severed with the other hand.

Another object of the invention is a device of the character mentioned upon which a spool of tape or ribbon may be easily and quickly mounted and from which the empty spool may be removed with the same ease and rapidity.

A further object of the invention is to provide such a device which includes means for cutting the tape or ribbon, said means being offset from the spool so that a portion of the unwound tape, after cutting, hangs free to facilitate its subsequent use.

A still further object is to provide a device comprising a cylinder having a flange on one side to hold a spool of tape and a channel-like arm pivoted to the flange in such a way that the channel straddles the spool and the corners of the side opposite the flange extends over the edge of the spool in one pivoted position, while in another pivoted position these corners are retracted, whereby the roll of tape can be placed on the spool and removably held in position between the flange and the corners of the channel on the other side, the arm carrying an extension with a knife edge parallel to the axis of the spool.

These and other objects and advantages of the invention will appear more fully from the following description, considered together with the accompanying drawing.

In the drawing:

Fig. 1 is a side elevational view of an embodiment of this invention with a spool of tape thereon.

Fig. 2 is a view similar to Fig. 1 with the spool of tape removed showing the position of the pivoted arm for removal of an empty spool and replacement of a new one.

Fig. 3 is a plan view of the same embodiment.

Fig. 4 is a section along the line 4—4 of Fig. 1.

Fig. 5 is a section along the line 5—5 of Fig. 4.

Fig. 6 is a section along the line 6—6 of Fig. 5.

Fig. 7 is a section along the line 7—7 of Fig. 4.

Fig. 8 is a section along the line 8—8 of Fig. 6.

Fig. 9 is a section along the line 9—9 of Fig. 1.

Referring with more particularity to the draw-

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ing in which like numerals designate like parts, the embodiment illustrated comprises a cylinder 11 upon which a spool of tape or ribbon 12 is freely mounted so that it may rotate thereon as the tape or ribbon is unwound.

On one side of the cylinder a flange 13 extends radially outward, one of its functions being to act as an abutment for one side of the spool of tape.

An arm 14 is pivoted to the outer side of the flange 13 by means of a rivet 15 or by any other suitable means. The arm extends outward from the pivot point at a substantial distance from the periphery of the roll 12. The outer end 16 of the arm is bent at right angles to form a bracket for mounting the cutter unit.

The cutter unit comprises a rectangular holder 17 having upper and lower flanges 18 and 19 and a flange 20 at one end. Between said flanges a rectangular blade 22 is disposed having a cutting edge along one side. The blade is shorter than the holder and an aperture 23 is provided through the holder between the end opposite the flange 20 and the edge of the blade when the latter is in operative position. A similar aperture 24 is provided through the outer end 16 of the arm to register with the aperture 23, the parts being so proportioned that when said apertures 23 and 24 are in registry, a portion of the member 16 overlies a portion of the blade 22 and thereby holds it in position.

A bolt 25 passes through the apertures 23 and 24 and is removably held in position by means of a nut 26.

A portion of the holder 17 is provided with a recess 27 to expose the cutting edge of the blade 22.

On the opposite side of its pivot, the arm 14 extends across the cylinder 11 and is provided with an offset portion 28 parallel to the main portion of the arm, but positioned on the opposite side of the cylinder. The offset portion is connected to the main body of the arm by means of a web 29. The arm at this point, together with the offset portion 28 and web 29 form a hand grip.

The web 29 is somewhat shorter than the inside diameter of the cylinder 11 to permit the arm to be pivoted through a small angle. The offset portion 28 is so proportioned that the corners 30 and 31 thereof opposite the web 29 rides over the edge of the cylinder 11 and extends a short distance beyond it (see Fig. 1), when the web is forced against the inside surface of the cylinder in one of the extreme pivoted positions

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of the arm 14, while in the opposite extreme position (see Fig. 2) the corners 30 and 31 are retracted. In the one extreme position, the spool of tape is held between the flange 13 and the corners 30 and 31. In the other extreme position, the spool is free of contact with the corners 30 and 31. Accordingly, in the latter position, an empty spool may be readily removed and replaced by a new one, after which the arm with its offset portion 28 is returned to the holding position of Fig. 1.

By these means it may be seen that this invention offers many advantages. The tape spools are easily and quickly replaced and there is no need to remove or disassemble any parts. Also only a very few parts are needed, but at the same time positive operation is assured. The device also provides a simple and inexpensive means for changing the cutting blade with a minimum of effort and materials.

Having thus described my invention, I claim:

1. A tape holder comprising a cylinder adapted to carry a spool of tape, said cylinder having a hollow portion extending from one side to the other, means on one side of said cylinder to abut one side of the spool when positioned on the cylinder, an arm pivotally supported on the same side of said cylinder as said means retractable means carried by said arm and extending through the hollow portion of the cylinder for abutting the other side of said spool and means for cutting unrolled portions of tape.

2. A tape holder comprising a cylinder adapted to rotatably support a spool of tape, said cylinder having a hollow portion extending from one side to the other, means fixed to one side of said cylinder to abut one side of the spool when positioned on the cylinder, an arm pivotally supported on the same side of said cylinder as said means, retractable means carried by said arm and extending through the hollow portion of the cylinder for abutting the other side of said spool and means carried by said arm for cutting unrolled portions of tape.

3. A tape holder comprising a cylinder adapted to hold a spool of tape, said cylinder having a hollow portion extending from one side to the other, an outwardly extending flange on one side of the cylinder, an arm on the same side of the cylinder pivoted to the flange, a movable abutment carried by said arm, said abutment extend-

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ing through the hollow portion to the side of the cylinder opposite the flange and means for cutting unrolled portions of tape.

4. A tape holder as defined by claim 3 having a hand grip carried by said arm.

5. A tape holder as defined by claim 3 in which the tape cutting means is carried by said arm.

6. A tape holder as defined by claim 3 in which the tape cutting means is carried by said arm and is offset from the cylinder.

7. A tape holder comprising a cylinder adapted to hold a spool of tape, said cylinder having a hollow portion extending from one side to the other, an outwardly extending flange on one side of the cylinder, an arm on the same side of the cylinder pivoted to the flange, a movable abutment carried by said arm, said abutment extending through the hollow portion to the side of the cylinder opposite the flange, a blade holder carried by said arm offset from the cylinder, a blade carried by said holder and means for removably securing said blade on said holder and said holder on said arm.

8. A tape holder comprising a cylinder adapted to rotatably support a spool of tape, said cylinder having a hollow portion extending from one side to the other, an outwardly extending flange on one side of the cylinder to abut one side of a spool of tape positioned on the cylinder, an arm on the same side of the cylinder pivoted to the flange, a movable abutment for the opposite side of the spool, said abutment being carried by said arm and extending through the hollow portion, a hand grip carried by said arm, a blade holder carried by said arm offset from the cylinder, a blade carried by said blade holder and means for removably securing said blade on said holder and said holder on said arm.

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