

June 2, 1942.

W. T. DONAHOO ET AL

2,284,807

TAPE CUTTER

Filed Nov. 25, 1938

Fig. 1

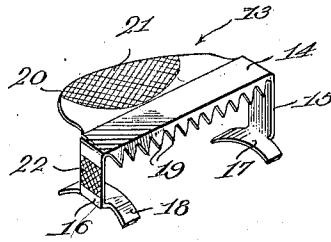
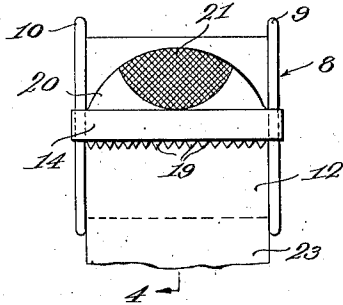


Fig. 2.

Fig. 3

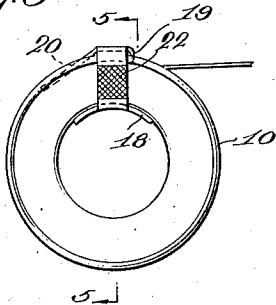


Fig. 4.

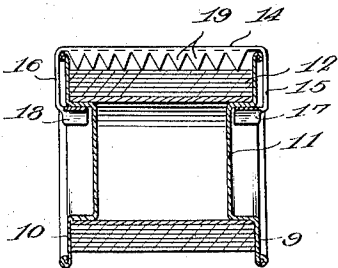
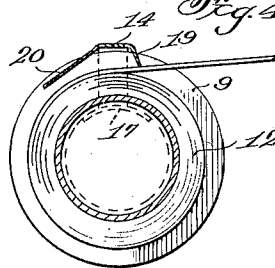


Fig. 5.

William Thomas Donahoo &
Oliver Arthur Phillips
INVENTORS

BY Victor J. Enns & Co.

ATTORNEYS

WITNESS

UNITED STATES PATENT OFFICE

2,284,807

TAPE CUTTER

William Thomas Donahoo, Gadsden, and Oliver
Arthur Phillips, Anniston, Ala.

Application November 25, 1938, Serial No. 242,366

2 Claims. (Cl. 206—52)

The present invention relates to devices for cutting adhesive tape or the like normally supported on rolls or spools.

The primary object of the invention resides in the provision of a cutter adapted to be disposed at right angles across the tape to be cut and embodying means for frictionally holding the cutter in position on the roll or spool as the tape is unreeled therefrom.

Another object of the invention is to provide a tape cutting device which is of simple form and construction yet strong and efficient for the purposes intended.

The general features of the device embody a substantially unitary construction formed of a material such as stainless steel or the like and includes a straight horizontal section adapted to extend across the width of the roll or spool. A cutting edge in the form of serrated teeth form a part of the horizontal section and are curved toward the roll of material to improve the cutting qualities thereof. A pair of arms depend from the horizontal section and the ends thereof are formed with arcuate shaped portions adapted to engage the hub portion of the roll or spool to frictionally support the device and maintain the cutting edge in spaced relation from the roll of tape.

The invention will be fully and comprehensively understood from a consideration of the following detailed description when read in connection with the accompanying drawing which forms a part of the application.

In the drawing:

Figure 1 is a top plan view of the device attached to a roll of tape;

Figure 2 is a perspective view of the cutter removed from the roll;

Figure 3 is an end elevational view of the device illustrated in Figure 1;

Figure 4 is a vertical sectional view taken substantially on line 4—4 of Figure 1; and

Figure 5 is a vertical sectional view taken substantially on line 5—5 of Figure 3.

Referring to the drawing for a more detailed description thereof wherein is illustrated the preferred embodiment of the invention, a roll or spool carrying adhesive tape or the like thereon is indicated generally by the reference numeral 8, said spool being formed with conventional marginal flanges 9 and 10 and a depressed central portion 11 serving as a hub on which the roll of tape 12 is supported. The device is shown in use with a roll having a central hub portion substantially as illustrated in Figure 5 of the drawing.

It is to be understood, however, that the cutter can be employed with the type of spool including a hollow central portion which forms the hub for supporting the roll of adhesive tape or the like.

The new and improved cutter generally indicated at 13 and clearly illustrated in Figure 2 of the drawing, includes a straight horizontal section 14 adapted to rest on the outer marginal portions 9 and 10 of the spool. A pair of arms 15 and 16 depend at right angles to the horizontal section 14 and the ends of said arms are formed with arcuate shaped portions 17 and 18 for engagement with the hub of the roll or spool as illustrated in Figure 5 of the drawing. The arcuate portions 17 and 18 are frictionally held in engagement with the hub of the spool or roll for supporting the device and maintaining the horizontal section in spaced relation from the roll of tape.

A cutting edge in the form of serrated teeth 19 is formed on the horizontal section 14 and said teeth are curved downwardly toward the roll of material in order to improve the cutting qualities thereof. By curving the teeth 19 in the manner proposed, it is also possible to utilize a cover for the roll and attached cutting device thereby providing a more sanitary package.

Extending rearwardly of and integral with the horizontal section 14 is a substantially semi-circular shaped lip 20 having a knurled portion 21 thereon adapted to be engaged by the thumb or finger when employing the device for cutting tape. The lip 21 preferably extends downwardly within the marginal edges 9 and 10 of the roll in order to permit attachment of a cover or the like as previously described.

The arms 15 and 16 are also formed with knurled portions 22 serving as gripping areas should it be desired to hold said arms while using the cutter. In other words, the cutter can be held by either lip 20 or arms 15 and 16 while cutting the tape, whichever is most convenient for the user.

A roll or spool of adhesive tape or the like may be dispensed with the herein described cutter forming a part thereof or may be independently sold and attached to the roll or spool after purchase. It is preferred, however, to have said cutter form a part of the roll or spool without interfering with the cover which is made possible by the lip 21 and teeth 19 curving downwardly toward the roll of material. In operation the free end 23 of the tape 12 is pulled forwardly until the desired length of tape is obtained.

When removing the tape from the roll either the arms 15 and 16, or the lip 20 will be held by the user thereby permitting the roll or spool to rotate for dispensing the tape. The tape is then severed by drawing the edge thereof against the cutting teeth 19. It will thus be seen that the attached cutter does not interfere with the unreeling of a desired length of tape since the arcuate portions 17 and 18 of the arms 15 and 16 are freely movable on the hub 11. The cutter can, however, be rigidly held while drawing the tape across the cutting edge thereof.

Also it will be understood, of course, by those skilled in the art that variations in the hereinabove described device involving the substitution of substantial equivalents for the devices described are intended to be comprehended within the spirit of the present invention and that the invention is capable of extended application and is not confined to the exact showing of the drawing nor to the precise construction described and, therefore, such changes and modifications may be made therein as do not affect the spirit of the invention nor exceed the scope thereof as expressed in the appended claims.

What is claimed is:

1. A cutting device of the character described

comprising, a member having a straight horizontal section and a pair of arms at right angles thereto, each of said arms having an inwardly projecting and relatively wide arciform portion adapted to be movably inserted in appressed relation within the end of an adhesive tape holding spool and tape cutting means carried by said horizontal section, said means comprising serrated teeth-like members integral with and extending downwardly from said horizontal section.

2. A cutting device of the character described comprising, a member having a straight horizontal section and a pair of arms at right angles thereto, each of said arms having an inwardly projecting and relatively wide arciform portion adapted to be movably inserted in appressed relation within the end of an adhesive tape holding spool, tape cutting means carried by said horizontal section comprising serrated teeth-like members integral with and extending downwardly from said horizontal section, and a lip member extending rearwardly of and integral with said horizontal section for holding said device when cutting tape on said cutting means

WILLIAM THOMAS DONAHOO.
OLIVER ARTHUR PHILLIPS.