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TAPE ROLL AND HOLDER

2,710,151

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2 Sheets-Sheet 1

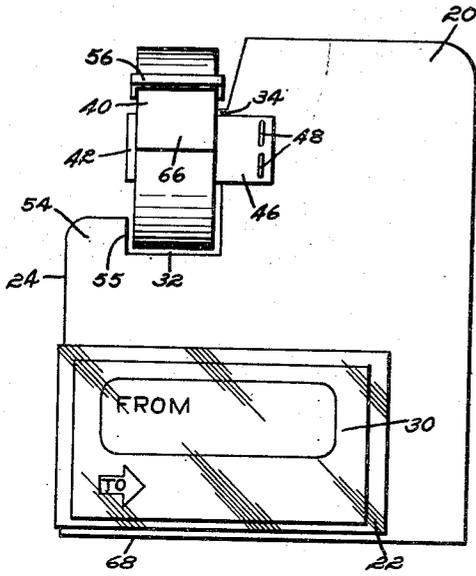


Fig. 1.

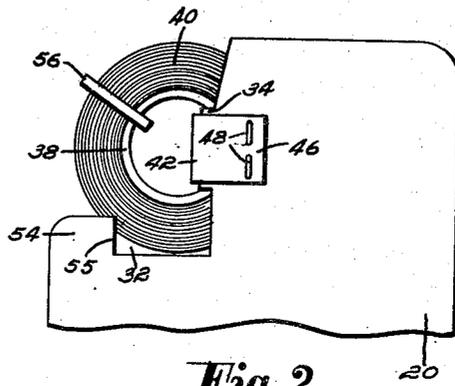


Fig. 2.

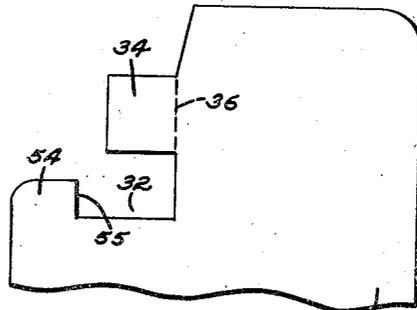


Fig. 3.

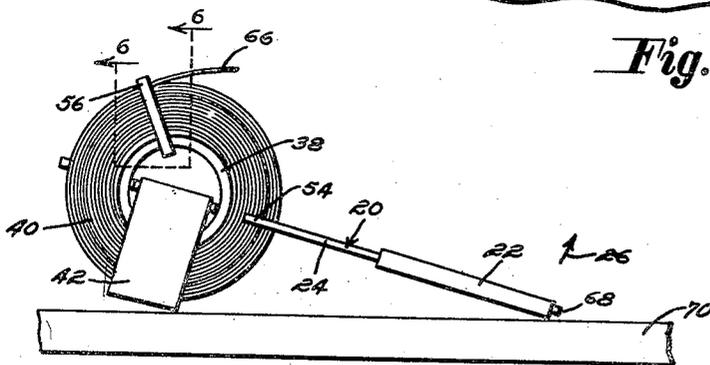


Fig. 4.

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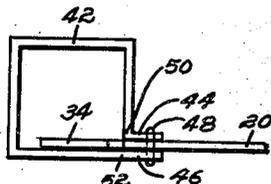


Fig. 5.

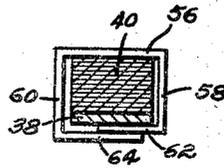


Fig. 6.

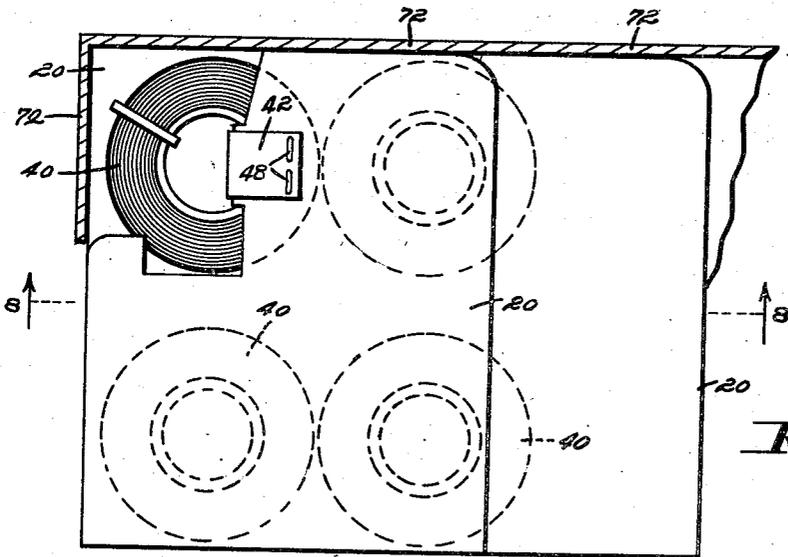


Fig. 7.

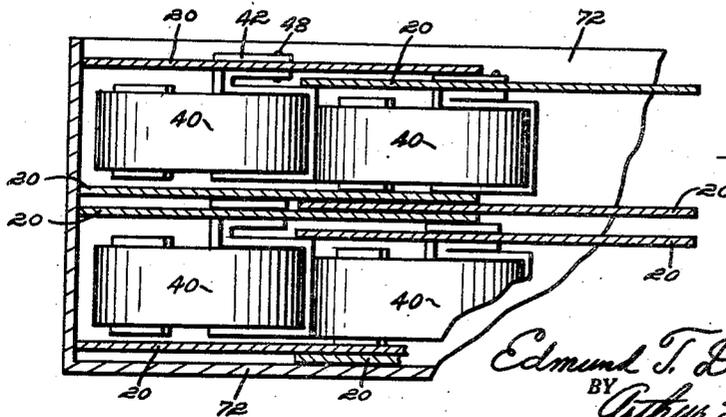


Fig. 8.

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**TAPE ROLL AND HOLDER**

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6 Claims. (Cl. 242—55.5)

This invention relates to the art of packaging, sealing and addressing goods, wares and merchandise to consignees and has for an object to provide a device which expedites the same.

Another object of the invention is to provide a device for the above stated purposes which may be folded in such a manner that a large number of the devices of the present invention may be nested compactly in a carton or the like for shipment to a retailer thereof.

A further object of the invention is to provide a device for the foregoing purposes having a platform which is so constructed that a coil of tape employed may be readily swung on a hinged axle for said coil from a nested position to an operative position.

A still further object of the invention is to provide detent means for preventing a swinging of a coil of tape employed from an operative position with respect to a platform employed to a nested position with respect to said platform.

Other and further objects and advantages of the invention will be understood from the following detailed description thereof:

In the drawings:

Figure 1 is a top plan view of the new device the parts thereof being depicted in an operative position of use.

Figure 2 is a view similar to Figure 1 and showing a coil of tape employed swung to a folded or nested position, certain portions of the platform employed being broken away.

Figure 3 is a view similar to Figure 2 the coil of tape being removed therefrom, together with a hinge strap employed.

Figure 4 is a side elevational view of the device shown in Figure 1.

Figure 5 is an edge view of a hinge strap employed.

Figure 6 is a transverse section, taken on line 6—6 of Figure 4 and showing an edge view of a cutter employed.

Figure 7 is a plan view of a quantity of the devices of the instant invention nested together in a carton.

Figure 8 is a longitudinal section of the said carton and contents the view being taken on line 8—8 of Figure 7.

Referring now to the drawings for a more particular description and first to Figure 1, 20 indicates a platform preferably formed of cardboard and of a flexible character sufficient for the following described purposes:

A transparent envelope 22 is provided, the normally sealed end thereof being disposed around the edge 24 of the platform 20 as best shown in Figure 4. A terminal end portion of the envelope 22 extends around the edge 24 of the platform being secured to the back side of the latter by any suitable means such as an employment of a selected cementitious material, whereby the envelope is pivotally attached to the platform. The free end of the envelope is adapted to be swung upwardly in the direction of the arrow 26 during use and, since a slit is provided adjacent said free end, the contents of the envelope may be readily removed therefrom one piece at a time, said pieces being selected by the operator readily.

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Within the envelope a plurality of addressing labels or tags 30 are provided having the legend thereon "From" and "To," as shown, whereby the labels 30 may be readily employed for addressing a package of merchandise from a consignee to a consignor.

As best shown in Figure 3, the platform 20 which is formed of a flat panel is incised providing a recess at one corner and the cut-away portion thereof defines, in outline plan, a notch 32 in one edge for a reception therein of a portion or segment of a later described coil of tape.

At the time the platform is formed by means of a punching operation, the latter is provided with a tang providing an axle 34 upon which said coil of tape is pivotally mounted, as later described.

The axle 34 is adapted to swing with respect to the platform 20 at times and along the dotted line of demarcation indicated at 36, since the platform is formed of a flexible material having a sufficient degree of inherent resiliency to permit swinging.

An annular core or sleeve formed of suitable material such as cardboard or the like is indicated at 38. Around the perimeter of said core a coil of tape 40 is provided for purposes later described. The transverse width of the core and coil are substantially equal as shown in Figure 6.

In use the axle 34 extends into the core 38 and the latter, together with the coil of tape, is prevented from sliding off the axle during swinging movements thereof and also during use by means of a detent strap 42, the latter being best shown in Figure 5.

Referring to Figure 5, terminal ends 44 and 46 of the flexible strap are disposed in parallelism respectively at each side of the platform 20 and staples 48 are disposed through said ends and said platform, as best shown in Figure 2, for securing the strap in operative position.

The main body portion of the strap extends around a segment of said core and is loosely disposed. The strap is adapted to flex at the points 50 and 52, said points being in alignment with the said line of demarcation 36 whereby the coil 40 may be moved from its position of use, as shown in Figure 1, to the position shown in Figure 2 for compactly nesting in a carton a multiplicity of the herein described devices, for a saving of shipping cost and also for the purpose of sustaining the form of the devices against the hazards of shipment.

During the formation of the platform 20 the latter is provided with a tongue-detent 54 for engagement with the adjacent side of the coil of tape 40 at times when the latter is swung into a position of use as shown in Figures 1 and 4.

The notch or opening 32 in the cardboard is slightly larger in area than the transverse area of a segment of the rolls or coil of tape 40 together with the core 38 and said segment is loosely disposed in said notch as is essential for permitting the coil to be swung on its hinge-detent strap 42 from a position of use, as shown in Figure 1, to a nesting position as shown in Figure 2.

The tongue-detent 54 is provided with a side edge portion 55 which, as best shown in Figure 1, is closely disposed with respect to the adjacent side edge of the coil. The tongue detent 54 extends a distance away from the platform 20 sufficient to at least engage a major portion of said side surface of the coil. At times when the coil is swung from the operating position thereof shown in Figure 1 so that the transverse axis of the coil is disposed at a right angle with respect to the platform 20, as shown in Figure 2, for the herein described purposes, the same is permitted since the tongue-detent 54 is formed integral with the platform 20 and has sufficient resiliency to permit said swinging movement since the portion 54 will yield during said swinging movement and subsequently spring or return back to a normal or initial position.

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A cutter 56 is provided transversely disposed across the perimeter of the coil 40. The metallic cutter 56 is best shown in Figure 6 and referring to the latter, the cutter is provided with an arm portion 58 and a like arm 60. The arms are respectively disposed at the sides of the core and coil and said arms are provided with terminal end portions respectively, said end portions being indicated at 62 and 64. The cutter 56 may be formed of a suitable plastic.

As best shown in Figure 6 the end portions 62 and 64 are disposed against each other and the end portion 62 is disposed against the inner annular wall of the core 38.

The cutter together with its adjunct parts is slidable with respect to the coil of tape 40.

#### Operation

After the coil has been swung into position as shown in Figures 1 and 4, the operator grasps the end 66 of the coil of tape between his thumb and forefinger of one hand while employing the fingers of his other hand to press downwardly upon the platform adjacent the end 68 of the latter and at the point X for holding the said end against a table top or the like 70, thereby causing a portion of the detent strap 42 to be lightly compacted against said table top, whereupon the operator withdraws a selected length of tape from the coil by causing said length to engage an edge of the metallic cutter 56 of the cutter.

As the transverse diameter of the coil becomes diminished resultant from a removal of selected lengths of tape, it will be seen that the cutter remains in an operative position, together with the detent strap since the latter is pressed against the surface 70 as above described.

The severed length of tape is then caused to adhere to the package addressed to the consignee and for sealing said package or the like together with the label or tag 30.

The foregoing describes a normal operation of the device and it will be understood that in lieu of resting the device on a table top as above described that the platform may be grasped between the thumb and forefinger of an operator during a withdrawal of a selected length of tape from the roll 40 and a severance of said length from the roll by means of employing the cutter 56 in conjunction with the operator's other hand during a severing of a selected length of tape from the main body portion of the coil. When used as thus described, the platform 20 provides a convenient handle and support for the coil during manipulation.

It will also be seen that tape may be withdrawn from the roll and severed from the latter at times when the roll or coil of tape 40 is detached from the platform. However, the platform not only provides a mounting for the roll, but also for the envelope and assures that the labels are conveniently disposed during an addressing and shipping operation without loss of time since the labels and tape are assembled together.

For shipment of a quantity of the new devices the latter are nested together as shown in Figure 7. During said nesting the coils 40 of said devices and certain adjunct parts of said coils, together with the hinge-axle 34 are then swung from the position thereof shown in Figure 1 to the position shown in Figure 2.

Several laminations of the nested devices are placed one on top of another and disposed in a stout carton indicated at 72 as shown in Figure 8. A cover, not shown, is placed over the carton and the package securely wrapped for shipment.

It will be seen that as thus described said nesting causes the form of the new device to be maintained during shipment. During use, the devices are removed from the carton 72 and the coils thereof are swung from their nesting position to a position of use as shown in Figures 1 and 4.

From the foregoing description it is thought to be

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obvious that a tape and label package constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof, and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice, except as claimed.

I claim:

1. In a tape and label package; a hollow annular core; a coil of tape disposed around said core; a cutter disposed across the perimeter of said coil; an arm at each end of said cutter, said arms being respectively disposed at the sides of the said core and coil; terminal end portions of said arms being disposed against the inner annular wall of said core for maintaining said cutter in an operative position with respect to said coil; a flat panel providing a platform, said platform having a recess extended inwardly from one edge thereof a tang carried by said platform and projecting into said recess, said tang being disposed into the hollow portion of said core for providing an axle upon which said coil is adapted to turn, a strap positioned over said tang and extended through said core, and means securing the ends of said strap to the platform.

2. In a tape and label package as described in claim 1 in which the tang-axle is sufficiently flexible to permit the transverse axis of the coil to swing from a position of use to a right angle with respect to the platform for nesting purposes.

3. In a tape and label package: a hollow annular core; a coil of tape disposed around said core; a cutter disposed across the perimeter of said coil; an arm secured to each end of said cutter, said arms being respectively disposed at the sides of the said core and coil; a terminal end portion of one of said arms being disposed against the inner annular wall of said core for maintaining said cutter in an operative position with respect to said coil; a flat panel providing a platform having a tang portion, said tang being disposed into the hollow portion of said core for providing an axle upon which said coil is adapted to turn; and a flexible strap disposed through said hollow core and about said axle, the ends of said strap being attached to said platform for maintaining said coil on said axle during swinging movements of said coil with respect to said platform.

4. In a tape and label package as described in claim 3 which further includes a detent-tongue on said platform and positioned to coact with said tang for preventing said coil from swinging from an operative position back to an initially nested position during use.

5. In a device for the purpose described: a hollow annular core having a coil of tape disposed on the outer wall thereof; a cutter disposed across the outer perimeter of said coil; means for maintaining said cutter in an operative position with respect to said tape; said means comprising an arm at each side of said coil respectively joined to opposite ends of said cutter for preventing longitudinal sliding movements of said cutter, at least one of said arms having a portion disposed at a right angle with respect to that arm, said portion being disposed transversely with respect to the inner annular wall of said core and closely adjacent to said wall for preventing undue movement of said cutter away from said tape, a flat panel having a recess with a notch therein in one corner, and a strap extended through the core of the coil of tape and positioned with the ends thereof secured to the panel and whereby the coil of tape is positioned transversely of the panel and extends into the notch.

6. In a holder for a roll of tape, the combination which comprises a panel providing a platform and said platform having a recess in one corner and having a

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notch therein with the notch positioned in one side of the recess providing a tongue detent at the outer edge of the recess, a roll of tape having a tubular core, a cutter positioned against the outer surface of the roll of tape and having arms extended into the core thereof for retaining the cutter in operative position on the roll of tape, and a strap extended through the roll of tape and positioned with the ends secured to opposite sides of the platform, said strap adapted to hold the roll of tape, selectively, with the tape positioned transversely of the platform and with the tape extended into the notch, or with the tape parallel to the platform and against one side thereof.

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