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TAPE ROLL SUPPORT

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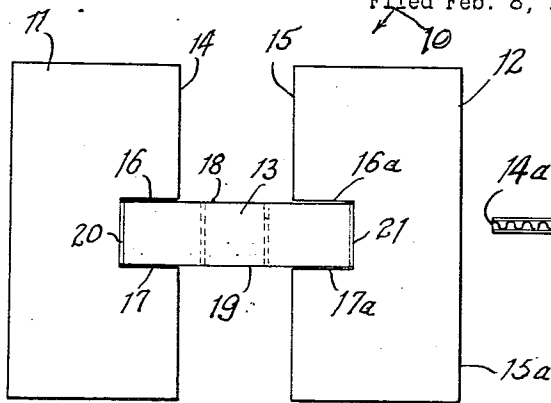


FIG. 1

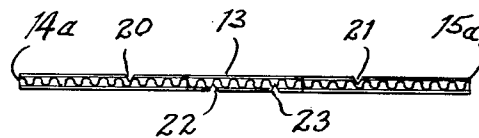


FIG. 2

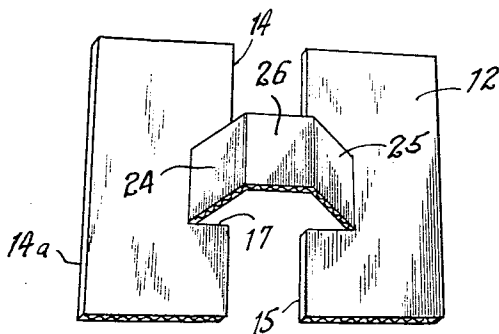


FIG. 3

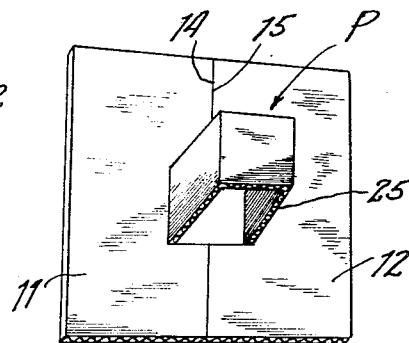


FIG. 4

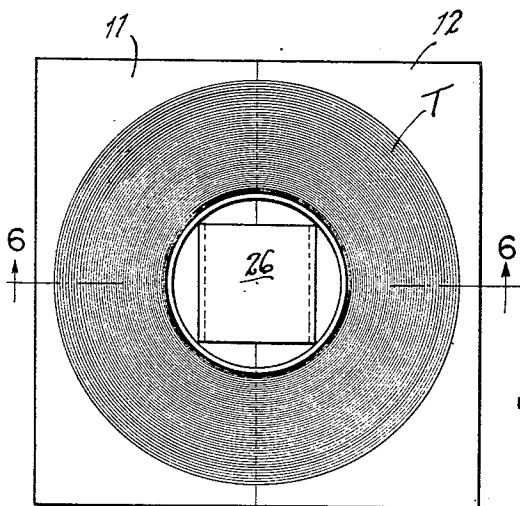


FIG. 5

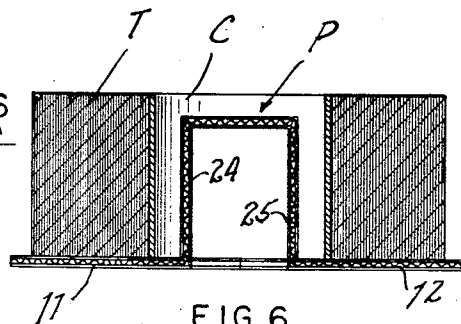


FIG. 6

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1

2,788,892

TAPE ROLL SUPPORT

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2 Claims. (Cl. 206—59)

This invention relates to tape roll supports, and more specifically, concerns devices for supporting rolled materials such as tape or the like, to facilitate the packaging thereof.

Rolled materials such as tape or the like, are packaged in various forms of containers, and, if not positively restrained in containers of rectangular section, may be subject to damage in handling and the like.

Accordingly, an object of this invention is to provide an improved holder and support for rolled material, such holder being adapted to positively position the supported material within a rectangular shaped package.

Another object of this invention is to provide an improved tape roll support for mounting the roll thereon in a manner to leave the outer circumference of the roll in spaced relation to the adjacent walls of a package containing the supported tape roll.

A further object of this invention is to provide an improved tape roll support which is derived from a flat, die cut blank of stiff material, such blanks being stored in a minimum space prior to use, yet being readily manipulated into three dimensional form for mounting the tape rolls thereon.

Still another object of this invention is to provide an improved tape roll support including a flat base with an integral central projection for snugly mounting the tape roll with one side thereof in contact with the base, the roll being held against movement relative to the support, which in turn has a peripheral configuration complementary to that of a package for containing the supported tape roll, thereby substantially retaining the mounted tape roll against movement within the package.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

In the drawings,

Fig. 1 is a plan view of a flat blank convertible into a tape roll support embodying the invention;

Fig. 2 is a sectional view thereof;

Fig. 3 is an isometric view of the blank in partially converted form;

Fig. 4 is an isometric view thereof in completely converted form;

Fig. 5 is a plan view showing the tape roll support mounting a tape roll; and

Fig. 6 is a transverse sectional view taken on the line 6—6 of Fig. 5.

Referring in detail to the drawing, and particularly to Fig. 1 thereof, 10 designates a flat, blank sheet of stiff material, such as cardboard, corrugated board or the like; which may be converted into a combination support and holder for rolled materials such as tape or the like and embodying the invention.

The blank 10 may be of rectangular shape and is cut by suitable means to provide a pair of similar, spaced rectangular portions 11, 12 connected by a rectangular neck portion 13 integral with said portions 11, 12. The neck portion 13 is centrally disposed in relation to opposed side edges 14, 15 of portions 11, 12 respectively.

2

The portions 11, 12 are cut inwardly of edges 14, 15 along parallel lines 16, 17, 16a, 17a which are in alignment with side edges 18, 19 of neck portion 13. The lines 16, 17, 16a, 17a terminate at points intermediate side edges 14, 14a, and 15, 15a of portions 11, 12 respectively. The portions 11, 12 are creased to provide fold lines 20, 21 extending transversely from the terminal ends of lines 16, 17, 16a, 17a and are further creased to provide fold lines 22, 23 extending parallel to fold lines 20, 21 and disposed between lines 16, 17, 16a, 17a, said fold lines 22, 23 being equidistant from fold lines 20, 21.

The blank 10, as thus formed, may be readily stored in flat form to occupy a minimum space, but may be easily and quickly manipulated to convert the same into a combination support and holder for rolled materials, such as a roll of tape T which may be provided with an annular core C.

Thus, blank portions 11, 12 are moved toward each other until their opposed side edges 14, 15 abut, as shown in Figs. 3, 4. The movement of said portions is effective to convert neck portion 13 into an upstanding projection P extending at right angles to portions 11, 12 and defined by fold lines 20, 21, 22 and 23, and being of rectangular section transversely and longitudinally thereof. Projection P comprises similar side panels 24, 25 integral with portions 11, 12 respectively and a top panel 26 connecting panels 24, 25.

The dimensions of projection P are proportioned so as to snugly receive the core C of tape roll T to be mounted thereon; the side edges of said projection frictionally engaging inner circumferential portions of said core. Thus, as shown in Figs. 5, 6, one side of tape roll T may lie in flat contact with blank portions 11, 12 while panel 26 of projection P is located somewhat below the outer surface of the tape roll. Alternatively, said panel 26 may be disposed flush with the outer surface of the tape roll, or even project beyond said surface somewhat.

The dimensions of blank portions 11, 12 may be so proportioned that the outer peripheral edges thereof will project beyond the outer circumferential extent of tape roll T mounted thereon. The thus supported tape roll T may now be packaged in any suitable container such as a corrugated paper box, set-up box, folding box, slip cover type box, metal container, or the like. The peripheral edges of the support may abut the adjacent panels or portions of the container, not shown, to hold the tape roll T firmly against movement within such container, while at the same time spacing the outer circumferential portions of the tape roll from the opposed edge portions of the container. The axial extent of the projection on the tape roll support may be such that the outer end thereof abuts the opposed wall of the container, thereby retaining the supported tape roll against movement between the side walls of the container thereof.

It is understood that the outer peripheral edges of blank sections 11, 12 may be of arcuate shape to allow the supported tape roll T to be packaged in a circular container. It will be apparent that the assembly of the tape roll T with core C or without such core, together with the support and holder therefor, will keep portions 11, 12 of the support in abutting relation, without the need for any further retaining means.

As various changes might be made in the embodiment of the invention, as herein described, without departing from the spirit thereof, it is understood that all matter disclosed herein shall be deemed illustrative and not by way of limitation except as set forth in the appended claims.

Having thus disclosed my invention, I claim as new and desire to protect by Letters Patent:

1. A support for a flat roll of material comprising a

3

flat stiff sheet, and an integral projection extending from a central portion of said sheet to one side thereof, said projection having axial edges extending at right angles to said sheet snugly engaging the inner circumferential portions of said roll mounted thereon throughout the linear extent of said edges, the peripheral edge of said sheet projecting beyond the outer circumferential portions of said roll.

2. A flat blank convertible into a tape roll support comprising a pair of adjacent, similar, rectangular sheet portions with opposed sides thereof in parallel relation, and a neck portion integral with and connecting said sheet portions, said neck portion being located centrally of the opposed sides of said sheet portions, each of said sheet portions being scored along lines extending inwardly of the opposed sides thereof and in alignment with the side edges of said neck portion, each of said sheet portions being transversely creased at the terminal ends of said score lines and being further transversely

4

creased at points spaced inwardly of said first mentioned crease lines, all of said crease lines being in parallel relation and extending from one score line to the score line opposed thereto, whereby said sheet portions may be moved toward each other in a common plane until the opposed sides thereof are in abutment while the neck portion is folded along said crease lines to provide an upstanding rectangular projection including parallel side panels interconnected by a top panel, the side edges of said side panels extending at right angles to the plane of the abutting sheet portions, the said top panel being square in shape.

References Cited in the file of this patent

UNITED STATES PATENTS

1,176,786	Stranders	Mar. 28, 1916
2,660,296	Dunning	Nov. 24, 1953