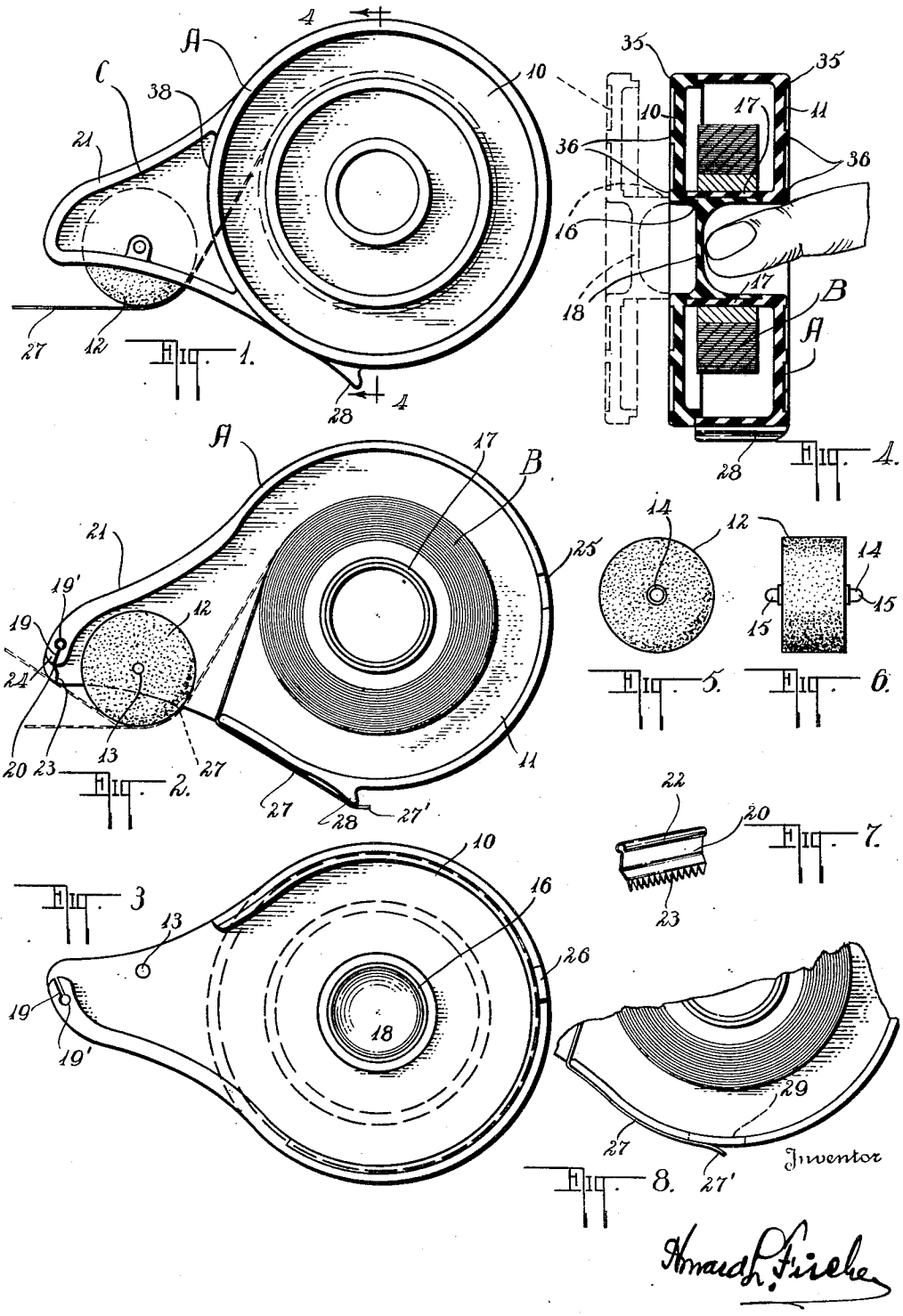
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TAPE DISPENSER

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TAPE DISPENSER

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My invention relates to a tape dispenser wherein the adhesive surface of the tape may be of a non-drying character or the adhesive tape may be made with a glue-like surface which when moistened may be applied to the surface to which the tape is to be adhered.

A feature of the invention resides in providing a simple construction where the compartment for holding the adhesive may be molded from a plastic material, and where the sides fit together by telescoping the same together.

A feature resides in providing a container which may be easily opened by pressing the finger through a hole in one side wall until the finger meets a transverse wall of the other side, and by causing the finger to exert pressure against said wall, the two sides are separated so that a new roll of tape may be placed within the same.

A further feature resides in providing a projecting portion on one side of the dispenser which projecting portion may be undercut so as to leave a protruding edge over which the free edge of the adhesive tape may extend so that the same may be easily engaged when it is desired to bring the free end of the tape under the pressing roller. This may also be accomplished by a cut-away portion in the casing which leaves the free edge of the tape in position to be easily engaged.

It is also a feature to provide a soft rubber or composition pressing roller which causes the tape to be pressed onto any uneven surface.

Another feature of the invention resides in the cut-off knife which is placed ahead of the roller and which acts as a key to hold the side wall portions of the casing in line when the same is closed.

These features together with other details and objects of my invention will be more fully and clearly set forth in the following specification and claims.

In the drawing forming a part of my specification:

Figure 1 illustrates a side view of my dispenser.

Figure 2 is a side view of the dispenser with one side wall removed.

Figure 3 illustrates the inside of the side wall which has been removed from the casing shown in Figure 2.

Figure 4 is a section on the line 4—4 of Figure 1.

Figure 5 illustrates a side view of the pressing roller.

Figure 6 illustrates an edge view of the pressing roller.

Figure 7 illustrates a perspective view of the key cutter.

Figure 8 illustrates a portion of the casing, showing a hole in the side wall which holds the free edge of the tape away from the side wall when the same is drawn back over the same.

The casing of my taper A may be made of molded plastic or any other suitable material and is composed of the side 10 and the side 11. The outline or shape of the dispenser A may be of any desired character, such as round, octagonal, or any desired outside shape or formation. I have illustrated a generally round formation to the main body portion of the casing from which projects a hood for covering the pressing roller 12.

The pressing roller may be made of rubber or other soft material, or of any material desirable, and is adapted to be supported between the side walls 10 and 11 in the openings 13 in the same by the shaft 14 which projects from either side of the roller 12. The ends of the shaft 14 are preferably rounded or pointed at 15 so as to cause the same to enter the openings 13 easily. The roller 12 is held freely removable when the side walls are separated and may be readily replaced. The roller 12 may be molded with the shaft 14 formed integral with the body, if it is desired, in which case, it should be made of plastic material.

The side walls 10 and 11 are held together mainly by the telescoping core portions. The tubular core portion 16 is formed on the side wall 10 and projects inwardly of the same and is adapted to telescope into the tubular core portion 17 as illustrated in Figure 4 when the sides 10 and 11 are held together. These tubular portions are frictionally engaged with each other in a manner so as to provide suitable means for holding the side walls in closed position as illustrated in Figures 1 and 4.

The side wall 10 is formed with a depressed wall portion 18 against which the finger can be forced as illustrated in Figure 4, to separate the walls 10 and 11. The tubular core portion 17 provides a bearing for receiving a roll of adhesive tape B as illustrated in Figures 2 and 4.

When the roll of tape B is in place on the tubular portion 17, the wall 10 may be telescoped by the tubular portion 16 entering the tubular portion 17 to close the container A. In closing the container A the holes 13 are aligned with the ends 15 of the shaft 14 so as to hold the roller 12 in place between the walls. To further align the walls 10 and 11, I provide the recesses 19 in which the key and cutter 20 is positioned. The key cutter 20 normally remains fixed in the forward hood end 21 of the side wall 11 as illus-

trated in Figure 2. The recess 19 formed in the wall 10, shown in Figure 3, is exactly the same as the recess 19 formed in the wall 11 and when the wall portions 10 and 11 are put together the projecting portion of the key cutter 20 is adapted to fit into the recess 19 of the wall 10. The key cutter 20 is formed with an enlarged edge 22 and an offset serrated cutting edge 23. The serrated cutting edge 23 projects beyond the surface 24 of the side wall 11, whereas, the enlarged portion 22 fits into the enlarged portion 19' formed in the inner end of the recess 19. The key cutter 20 is held by spring tension and friction normally in the recess 19 in the portion 11. Thus the key cutter 20 forms a means of aligning the walls 10 and 11 when they are put together. I also provide a recess 25 formed in the edge of the wall 11 as illustrated in Figure 2 and into which the projecting key portion 26 formed in the edge of the wall 10 is adapted to fit. The portion 26 is shown in Figure 3.

When the tape from the roll B is adapted to be used in the dispenser A, the free end 27 of the same is brought around under the pressing roller 12 as illustrated in Figures 1 and 2. To apply the tape, it is only necessary to cause the roller 12 to press down against the back of the tape and pull the dispenser along over the surface to be taped. When it is desired to cut off the tape, the dispenser is tilted so that the tape 27 will come in contact with the cutting teeth of the cutter 23, whereupon the tape is cut off. The free end 27 of the tape can be adhered to the surface of the portion 11 as illustrated in Figure 2 with the extreme free end 27' projecting beyond the raised edge 28 which is formed on the side wall portion 11 and is illustrated in Figures 1, 2 and 4. The raised portion 28 is under-cut so that the tape end 27' will project in a manner so that it will be easily engaged to lift it off of the surface of the wall 11 and bring it under the roller 12 in position to be used.

Instead of using the raised edge 28 to provide a free engagement of the end 27' of the tape end 27, I provide in an alternative form an opening 29 in the side portion 11. This provides a means of permitting the finger nail or giving free access to the end 27' of the tape to remove the tape from its adhered position as illustrated in Figure 8.

I provide an alternative form for my dispenser wherein a well 3 is provided in which a wick 31 may be placed which may be saturated with water and which wick presses against the roller 32. The roller 32 is placed a slight distance away from the roller 12 so that the tape 33 may be passed under the roller 12 and in a position so that it will strike the moistening roller 32. The wick 31 may be urged by a spring 34 toward the roller 32. In this form of my dispenser, a dry adhesive tape may be used with a glue surface which may be moistened as the tape is drawn from the dispenser by the roller 12.

In operation the roller 12 acts to draw the tape off of the roll B as it is desired for use, and with my dispenser the tape can be quickly attached to any surface by simply drawing the dispenser over the surface and causing the roller 12 to press the tape against the surface to be taped. The primary features reside in the compact construction of the dispenser and the easy manner in which it can be opened, as illustrated in Figure 4, so as to place a new roll of tape on the core tube 17, the freely removable roller 12, the cutter which is placed ahead of the roller 12 and which acts as a key to hold the sides in line together, together with the means for holding the extreme free end 27' of the tape projecting beyond the shoulder or edge 28 or within the opening 29 so that it may be easily taken hold of to bring it under the roller 12 when it is desired for use. It is also a feature to provide a marginal reinforcing rib 35 formed on the sides 10 and 11, and inner ribs 36 formed on said sides which reinforce the side walls and provide gripping means so that the dispenser may be more easily held when using the same.

The case of the dispenser A may be made in a manner so that the portion of the casing which covers the roller 12 is in the form of a hood C and the side wall 10 is in the form of a disc separating from the hood C on the circular line 38, as shown in Figure 4. It is obvious, however, that the side wall 10 may extend over the entire side of the casing as illustrated in the inside formation of the same shown in Figure 3. When the casing is made with the wall 10 in the form of a disc, the roller 12 is held and positioned between the sides of the hood and is not ordinarily removable. The same is true of the cutter 20.

With these features I provide a device of a simple practical nature which makes it easy to assemble and disassemble and to dispense tape from the same.

I claim:

1. An adhesive tape dispenser comprising a casing having somewhat circular parallel side walls, tubular core means projecting inwardly from said side walls adapted to telescopically fit together to hold the side walls in closed position and adapted to support a roll of tape, transverse wall means in said core means which when pressed against, causes said side walls to be separated, a peripheral wall having a recess, a tape pressing roller positioned in said recess in said peripheral wall, and a tape cutter positioned forwardly of said roller.

2. A tape dispenser including a casing adapted to support a roll of adhesive tape therein, tubular core means formed projecting inwardly from the walls of said casing adapted to support the roll of tape, a tape pressing roller supported in said casing, a pair of recesses in said casing, a cutter held frictionally in one of said recesses in one of said side walls and adapted to engage the other recess in the other side wall to hold said walls in alignment, and an aperture formed in said casing over which the free end of the extremity of the tape from the roll may be extended unadhered while the other portion of the free end of the tape is adhered to the casing, facilitating the disengagement of the adhered portion of the free end of the tape to place the same under the pressing roller.

3. A tape dispenser including a tape pressing roller, a casing formed of two side wall portions for enclosing a supply of tape, said side wall portions having tubular inwardly projecting core portions for supporting said tape, a cutter for the tape, and means for facilitating the separating of said walls from each other by pressing against a transverse wall formed in the core of said casing.

4. An adhesive tape dispenser including a tape pressing roller, a casing having side walls and a hood formed over said roller, one of said side walls being in the form of a disc, said side walls having tubular inwardly projecting core portions for supporting a roll of adhesive tape, said core

portions telescoping together in a manner to hold the casing closed, a tape cutter means and a recess formed in said casing permitting the free end of the tape to project beyond said recess, for engagement.

5. A tape dispenser comprising a casing having side walls and a core portion adapted to telescope together, a shoulder means secured to one of said walls and disposed between the same, which when depressed by the finger separates said walls to open said casing, a tape pressing roller, a pair of aligned recesses in the walls of said casing, a cutter key adapted to fit into said recesses and said cutter key providing a means for holding the side walls of said casing aligned when the same is closed.

6. An adhesive tape dispenser including a tape pressing roller, a casing formed with two side wall portions for enclosing a supply of tape, and wall portions being provided with a recess, a cutter key for cutting the tape, said cutter key adapted to fit into said recesses and providing a means for holding said side walls in alignment when said casing is closed.

7. An adhesive tape dispenser comprising a casing having side walls telescoping together, means for holding a roll of adhesive tape in said casing, a tape pressing roller and a recess in said casing providing a means for projecting the end of the tape beyond the recess for easy engagement of the projecting end of the tape.

8. An adhesive tape dispenser including a casing having somewhat circular parallel side walls, a peripheral wall having an opening therein projecting beyond the side walls, a freely removable tape pressing roller adapted to be mounted between said side walls in said opening in said peripheral wall and a removable cutter key positioned ahead of said roller, for cutting the tape, said cutter key acting as a means to hold said side walls in alignment.

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